COMPILATION AND APPRAISAL

Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels

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1983

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES NO. 5

Fisheries and Oceans
Pêches et Océans

Canada

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 5

1983

ARCTIC DATA COMPILATION AND APPRAISAL
VOLUME 3
Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels

by

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PREFACE

This group of data catalogues is produced by the Ocean Information Division at the Institute of Ocean Sciences. Joint government/industry contract projects have catalogued marine data sets focusing primarily upon oceanography and fisheries. Data set quality appraisals are provided to assist in establishing the usefulness of certain data for particular kinds of analyses and the confidence to be placed in interpretations. This will assist in setting priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses range from contributing to research planning, especially for climatological studies, to providing the best available resumé of marine data sources for environmental assessments.

Accompanying the accelerating pace of Arctic offshore development activity is the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. This review process has been divided into three phases: the first phase involves compilation and appraisal of all existing data sets; the second concentrates upon analysis of the suitability of the historical data for contributing to questions of particular interest; while the third relates primarily to analysis and/or interpretation of data and estimation of the scientific confidence in answering particular questions. This report represents the results of the first phase for the physical oceanographic data of the Northwest Passage.

Dr. Alan B. Cornford
Scientific Editor
Arctic Data Compilation
and Appraisal Series

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Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 3) 262 p.

CONTENTS

		Page
	ABSTRACT	iv
	ACKNOWLEDGEMENTS	v
	SPECIAL CREDITS	vi
	VOLUME ABSTRACT	1
1.	**INTRODUCTION**	1
2.	**STUDY AREA**	2
3.	**EARLY HISTORICAL DATA**	6
4.	**GENERAL REPORT LAYOUT AND USER INSTRUCTIONS**	6
4.1	DATA SETS	6
4.2	INVENTORY ORGANIZATION	
4.3	SAMPLE USE OF THE INVENTORY	7
5.	**DATA RATING AND APPRAISAL**	9
5.1	TYPES OF DATA	9
5.2	DATA RATING SCALE	11
6.	**SUMMARY OF DATA COVERAGE**	14
6.1	SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS	14
6.2	SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS	14
6.3	SYNOPTIC DATA SETS AND EXTENDED TIME SERIES	30
6.4	CONCLUSIONS	31
7.	**REFERENCES**	32
8.	**DATA INVENTORY TABLE**	41
9.	**MAPS**	59
10.	**INDEXES**	115
10.1	GEOGRAPHICAL	116
10.2	MEASUREMENT TYPE	117
10.3	REFERENCES BY DATA SET NUMBER	118
11.	**LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS, BY YEAR**	127
11.1	TEMPERATURE-SALINITY DATA	127
11.2	CURRENT METER DATA	201
11.3	WATER LEVEL DATA	213
APPENDIX 1	REMARKS - METHODS, PROBLEMS AND ERRORS BY DATA SET NUMBER	237
APPENDIX 2	CURRENT PROFILE AND OVER-THE-SIDE CURRENT MEASUREMENTS	257
APPENDIX 3	ADDRESSES AND PHONE NUMBERS OF DATA SOURCES	261

ABSTRACT

J.R. Birch, D.B. Fissel, D.D. Lemon, A.B. Cornford, R.A. Lake, B.D. Smiley, R.W Macdonald and R.H. Herlinveaux. Arctic Data Compilation and Appraisal. Volume 3. Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
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This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The Arctic has been arbitrarily divided into seven geographical areas incorporating, where possible, major oceanographic regions. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Therefore catalogues which are presently available in the series are indicated on the inside back cover of each volume.

Data collection is a continuing process and further updates of the catalogues are planned. Readers are requested to submit corrections and additions by writing the issuing establishment. Such corrections will be incorporated in on-line computerized data set listings and will be continuously available upon request.

SOMMAIRE

J.R. Birch, D.B. Fissel, D.D. Lemon, A.B. Cornford, R.A. Lake, B.D. Smiley, R.W Macdonald and R.H. Herlinveaux. Arctic Data Compilation and Appraisal. Volume 3. Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
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Le présent volume fait partie d'un groupe de catalogues destinés à compiler et à évaluer les séries de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a été divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qui'il est impossible de fournir tous les catalogues en une seule fois. Les catalogues de la série actuellement disponibles sont indiqués à la fin de chaque volume à l'interieur de la couverture.

La collecte des données est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

ACKNOWLEDGEMENTS

The authors wish to express their thanks to the many different people and organizations who assisted with information and data during the course of the compilation. In particular, we wish to thank J. Gagnon of the Marine Environmental Data Service in Ottawa and H. Odum of the National Oceanographic Data Center in Washington, D.C., for providing access to their data files. Information and assistance were received from F. Stephenson, Institute of Ocean Sciences; D. Gregory, Bedford Institute of Oceanography; Dr. S. Prinsenberg, Canada Centre for Inland Waters; Dr. E.R. Pounder, McGill University; Dr. E. Sadler, Defence Research Establishment Pacific and F. Barber of Ocean and Aquatic Science Affairs Branch, Dept. of Fisheries and Oceans. Special thanks are also due to S. Norton, S. Luscombe and B. Clarke of Arctic Sciences Ltd. for their dedication in preparing the manuscript, and to K. Creighton, K. Holman, B. Watt and P. Kimber of the Institute of Ocean Sciences for their aid in preparation of the maps. Credit for most of the computer program development goes to S. Oberski and R. Chave of Arctic Sciences Ltd.

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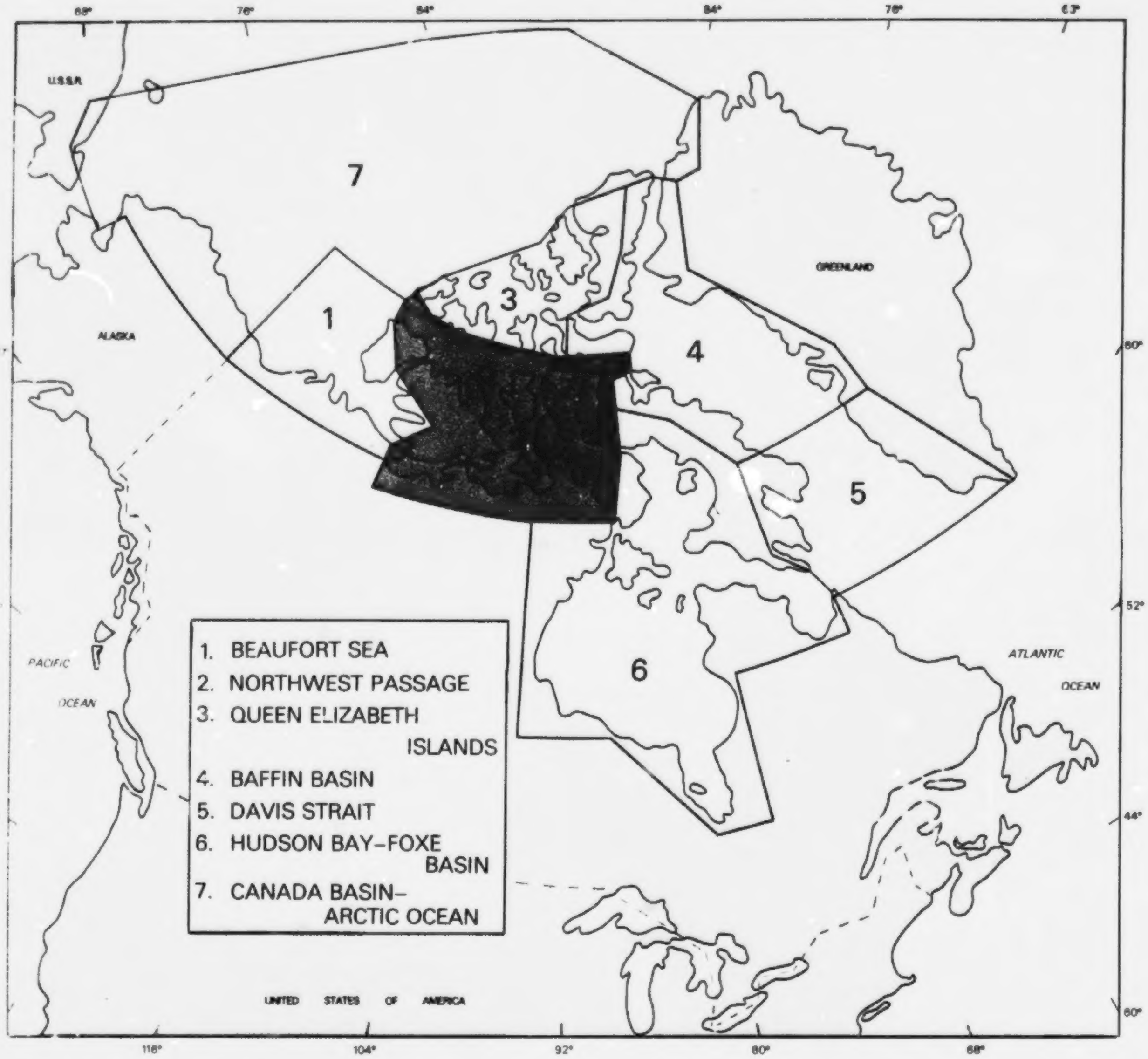
ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 3

NORTHWEST PASSAGE: PHYSICAL OCEANOGRAPHY


68°
76°
84°
84°
76°
63°
U.S.S.R.
7
ALASKA
1
3
GREENLAND
4
5
6
60°
52°
44°
124°
PACIFIC
OCEAN
ATLANTIC
OCEAN
1. BEAUFORT SEA
2. NORTHWEST PASSAGE
3. QUEEN ELIZABETH ISLANDS
4. BAFFIN BASIN
5. DAVIS STRAIT
6. HUDSON BAY-FOXE BASIN
7. CANADA BASIN-ARCTIC OCEAN
UNITED STATES OF AMERICA
116°
104°
92°
80°
68°

The area covered by this volume is shaded in the map above.

VOLUME 3: Northwest Passage: Physical Oceanography Temperature, Salinity, Currents, and Water Levels

VOLUME ABSTRACT

This inventory contains a catalogue of physical oceanographic data from the Northwest Passage. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current meter, water level and drifter data. Meteorological and ice information are not included. Yearly plots showing the locations of all measurements are included, as are indexes by area and measurement types. References and sources are listed for all data included in the inventory.

Key words: Northwest Passage, currents, data, inventory, salinity, temperature, tides, water properties.

1. INTRODUCTION

This inventory presents a catalogue of physical oceanographic data collected in the marine channels of the Northwest Passage. Nineteenth century historical data are discussed in Section 3. Inventoried data span the period 1908-1982. Physical oceanographic data included are temperature and salinity, Eulerian currents, Lagrangian drift paths and water levels. The catalogue includes information such as where and when the data were collected, which parameters were measured, what instruments were used, and the quality of data. The data themselves are not included but the data source is noted wherever possible. Data which are proprietary or otherwise unavailable, are mentioned only as to their existence.

The data inventory is ongoing. At present there are 125 data sets. As new data and previously inaccessible data become available, they will be added to a computerized data base maintained at the Institute of Ocean Sciences. Information about new data sets, older data sets which are not in the catalogue, or errors in this catalogue, should be submitted to the Institute of Ocean Sciences.

The inhospitability of this arctic region seriously hindered scientific exploration. It was not until the mid 1950's that significant amounts of oceanographic data were collected (Figure 1). These data sets were collected mainly for scientific/military research, by the Canadian and American governments, primarily using the Canadian Coast Guard vessel Labrador. The Labrador cruises were partly intended to "show the flag" and lend more basis to Canada's claim to the north. Oceanographic effort waned in the early 1970's. The burst of activity in the mid to late 1970's resulted from the need for environmental data by government and industries interested in exploiting the regional resources.

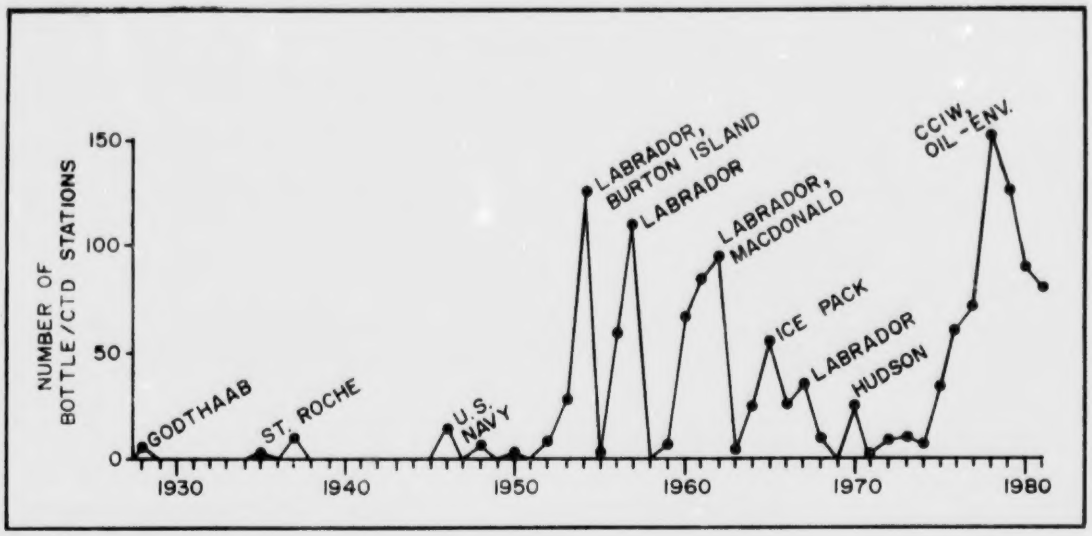


Figure 1: Yearly distribution of bottle/CTD stations in the area of the Northwest Passage data compilation.

2. STUDY AREA

The study area (Figure 2) includes about 10^5 km^2, similar in size to Baffin or Hudson Bay. The marine channels of the Northwest Passage are usually ice congested, even in summer, and it was not until 1905 that Roald Amundsen, commanding a thirty-five foot long herring boat, the Gjoa, managed to complete the Passage by sea.

PHYSIOGRAPHY

The islands of the Canadian Archipelago represent the exposed parts of the continental shelf which extends north from the mainland. The Canadian Shield, composed of ancient Precambrian rock, makes up the shores of the southern channels, extending up the Boothia Peninsula and Baffin Island. North of here, the overlying rock is primarily composed of sediments which were deposited over the Precambrian basement.

During the last ice age, glaciers extended over much of the area. Upward rebounding of the land after the ice retreated has resulted in widespread areas of raised beaches, except the west coast of Banks Island which appears to be sinking. Scouring from ice is evident in both the surface and submarine topography. For more information, refer to Dunbar and Greenaway (1956).

METEOROLOGY

Characteristic patterns of summer and winter atmospheric pressure indicate a preference for north to northwest winds, with winter winds being

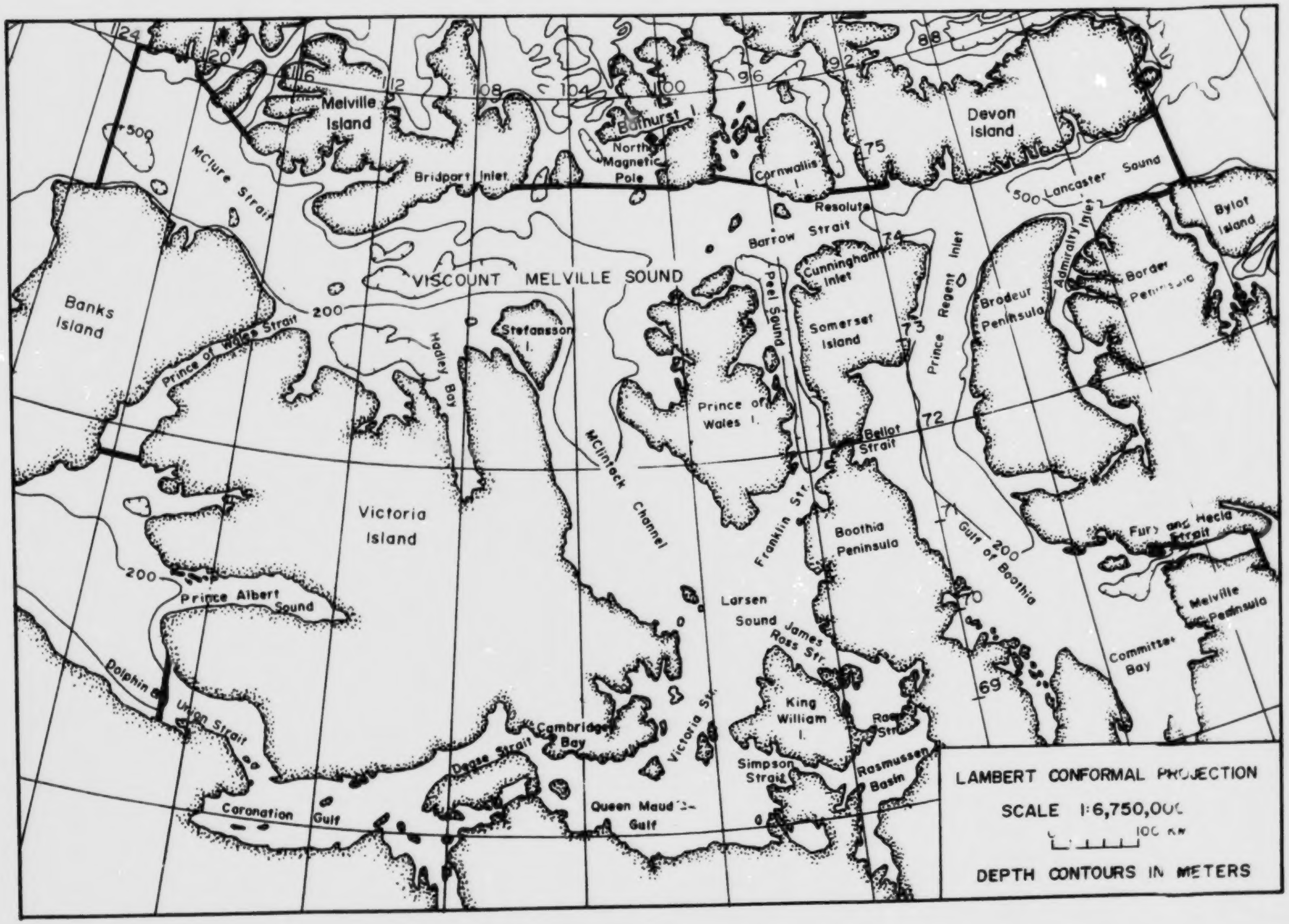

124
120
116
112
108
104
100
96
92
88
75
74
73
72
70
69
Melville Island
Bathurst I.
North Magnetic Pole
Cornwallis I.
Devon Island
Bylot Island
M'Clure Strait
Bridport Inlet
Resolute
Lancaster Sound
500
Admiralty Inlet
Border Peninsula
Banks Island
Barrow Strait
VISCOUNT MELVILLE SOUND
Peel Sound
Cunningham Inlet
Somerset Island
Prince Regent Inlet
Brodeur Peninsula
Prince of Wales Strait
200
Hadley Bay
Stefansson I.
Prince of Wales I.
Bellot Strait
Victoria Island
M'Clintock Channel
Franklin Str.
Boothia Peninsula
Gulf of Boothia
Fury and Hecla Strait
Prince Albert Sound
Larsen Sound
James Ross Str.
Melville Peninsula
Committee Bay
Dolphin and Union Strait
King William I.
Victoria Str.
Cambridge Bay
Rae Str.
Dease Strait
Simpson Strait
Rasmussen Basin
Coronation Gulf
Queen Maud Gulf
LAMBERT CONFORMAL PROJECTION
SCALE 1:6,750,000
100 KM
DEPTH CONTOURS IN METERS

Figure 2: Northwest Passage data compilation study area.

stronger. The weaker summer pressure systems generally result in more variable wind directions. Ives and Barry (1974) provide a comprehensive analysis of the Arctic atmospheric conditions.

SEA ICE

New ice generally begins to form in September and quickly consolidates over all but the eastern channels of the Passage. The ice sheet is generally immobile during winter in the restricted channels to the south. In Lancaster Sound and Prince Regent Inlet significant motion can occur. Ice in M'Clure Strait has been observed to move in both directions. By mid-May sea ice grows to 2 m thick in most regions. The winter climate is always severe enough that this pattern exists each year, with the major variation being in the thickness of the winter ice sheets.

Summer breakup is much more variable. Some areas clear every summer, others, such as M'Clure Strait, remain congested with the remnants of winter ice. Breakup depends on the air temperature, solar heating, as well as wind and local current conditions. The mean direction of ice drift is to the south and east, coincident with the direction of the main wind and current forcing. For more detail Markham (1981), and Lindsay (1976) are good references.

BATHYMETRY

The channels of the Northwest Passage represent the sub-surface portions of the northward extending continental shelf. The greatest depths are found to the east in Lancaster Sound and to the west in M'Clure Strait and Viscount Melville Sound where maximum depths exceed 500 m. These two regions are separated by a sill of about 150 m depth in Barrow Strait. Depths in Prince Regent Inlet shoal from about 365 m where it meets Lancaster Sound to 200 m at the Gulf of Boothia. In the southernmost channels, the waters are relatively shallow, on the order of 50 m, and Queen Maud Gulf and Coronation Gulf in particular are studded with many small islands. The channels to the north of the Passage are shallow as well, typically 120 m deep. Walker (1977) provides more detail.

WATER MASSES

The Northwest Passage system represents a transition zone between Arctic waters to the west and waters of both Atlantic and Arctic influence to the east. Arctic water dominates the upper portions of the water column but undergoes modification due to runoff, icemelt and solar heating. The general easterly flow of Arctic water is restricted by the shallows of the Passage and only the upper 150 m or so of the Arctic water column moves east. Warmer, more saline Atlantic water is found below the Arctic layer and is generally confined to the depths of eastern Lancaster Sound.

Figure 3 (Collin, 1962b) illustrates the vertical water structure along an east-west transect of Parry Channel. The relatively cold, low salinity Arctic waters extend to about 200 m depth. Below this is warmer, more saline water of Atlantic influence. The surface waters of Lancaster Sound are more saline than those further west because of a contribution of Atlantic water brought to northern Baffin Bay by the West Greenland Current.

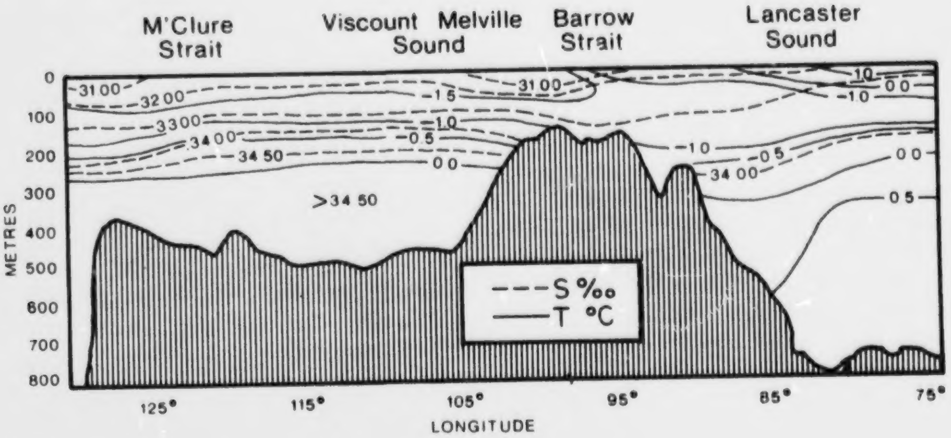


Figure 3: Vertical section of temperature and salinity through Parry Channel (from Collin, 1962b). Based primarily on August-September 1956 and 1957 data.

CURRENTS

Direct current measurements in the Northwest Passage are few. Much of our knowledge of the circulation is based on dynamic computations using water mass distribution, and on observations of ship and ice drift. These data have generally been restricted to summer months.

It is believed that the general flow of water is from west to east, a result of higher sea levels in the Arctic Ocean. Currents in eastern Lancaster Sound and in restricted channels can be on the order of 100 cm/sec. Mean currents are often weak however, and may be obscured by tidal flows or currents due to meteorological forcing and other sources of variability. As a result, the importance of direct long-term current measurements has become increasingly evident.

TIDES

Tidal ranges in the Passage vary from about 2 m in Lancaster Sound and Fury and Hecla Strait, 1.5 m in Viscount Melville Sound, to about 1 m in the southern regions. The tides are semi-diurnal in character but can have considerable inequality in the heights of successive high and low waters (Dohler, 1964). Even though the tidal ranges are not overly large, significant tidal currents can result due to restrictions of the many narrow passages.

3. EARLY HISTORICAL DATA

Non-native exploration of the area dates back to the eleventh century when Icelandic and possibly Norse adventurers reached northern Baffin Bay. In 1616 Bylot and Baffin reached Lancaster Sound, the main entrance to the Northwest Passage. Other European explorers followed but their efforts were directed more at finding a route to the Far East than at obtaining scientific data. Data collected by Sir John Ross in 1818 represent some of the first records of oceanographic data in this area. His crew obtained sub-surface temperature data in eastern Lancaster Sound (Ross,1819, Prestwich, 1875). The data are crude by today's standards however, and have not been included in the inventory. Some of the others who followed also took soundings and crude temperature measurements. Although actual records are sparse, the explorers obviously gained much knowledge of the nature of the currents and tides of the region. Tracks of ice-beset vessels, as early as 1849, indicated an easterly flow along the south side of Lancaster Sound. It was not until 1905 that Amundsen completed the Passage by sea. Between 1913 and 1918, the Canadian Arctic Expedition made tidal measurements. Dawson (1920) mentions a current meter being included in the expedition's equipment, however he does not indicate that any current measurements were actually taken. This report begins with water level measurements in 1908 and documents all subsequent data available through to early 1982.

4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type taken on a single expedition or cruise, usually by a single institution or organization. Thus, unless otherwise noted, all the data within a single set is assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which data were collected and nnnn = order of identification for that particular data set for that year. The data set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 72-0009 is the same data set no matter where the reference to it is made. Gaps may appear in the sequence of data set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area.

4.2 INVENTORY ORGANIZATION

Table 1 (Section 8) lists all the data sets in the inventory in order by data set number. It provides a summary description of each set including the times, areas and methods of measurements. Table 1 also gives a listing of concurrent measurements from other disciplines.

Geographical and measurement type indexes are given in Section 10. The subareas in the geographical index are shown in Figure 2. Section 10 also contains an index of references, ordered by data set number. It is primarily an index of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

The bulk of the catalogue is measurement locations plotted in a series of maps (Section 9). An overall map and four sub-area maps are used, all in Lambert Conformal Conic projection with standard parallels at 70 and 74°N (Figure 4). The overall and sub-area maps have 1:7,000,000 and 1:4,000,000 scaling, respectively. In all cases, the coastlines have been smoothed and small islands have been removed to avoid clutter.

Detailed listings of the times and locations of individual measurements are in Section 11. There is a separate listing for each data type. The beginning of Section 11 explains the format of the listings.

Data sets were rated according to the criteria in Section 5. The ratings are listed in Table 1. Appendix 1 contains comments explaining the reasons for low ratings, a list of any errors found in each data set, and any other pertinent remarks concerning the data. The comments are ordered by data set number.

Section 6 contains a general description of the extent of the data available in the Northwest Passage. Sections 6.1 and 6.2 describe its geographical and seasonal distribution. Section 6.3 tabulates instances of repeated measurements in the same area, and instances where measurements were carried out simultaneously, in different areas, or by different agencies.

4.3 SAMPLE USE OF THE INVENTORY

A typical use of the inventory might go as follows:

1. Consult the indexes in Section 10 to determine which data sets contain appropriate measurements in the desired areas.
2. Consult the maps in Section 9 to determine the number and disposition of measurements.
3. Refer to Table 1 for an overall description of each data set including the dates spanning the measurement period and an abbreviated listing of sources for the data.
4. If more specific information is required concerning the timing or location of individual measurements in the set, refer to Section 11.
5. Refer to Table 1 and Appendix 1 for information concerning the instruments and methods used in collecting the data, estimates of its accuracy and its overall rating.
6. Consult the reference index in Section 10 for partial listing of works referring to or using the data.

Another example might go as follows:

1. Examine the maps in Section 9 for measurements during a particular year, and note the data set numbers of interest.
2. Refer to Table 1 to find the range of measurement dates, measurement methods and accuracies and data sources.
3. Continue with steps 4, 5 and 6 from the first example.

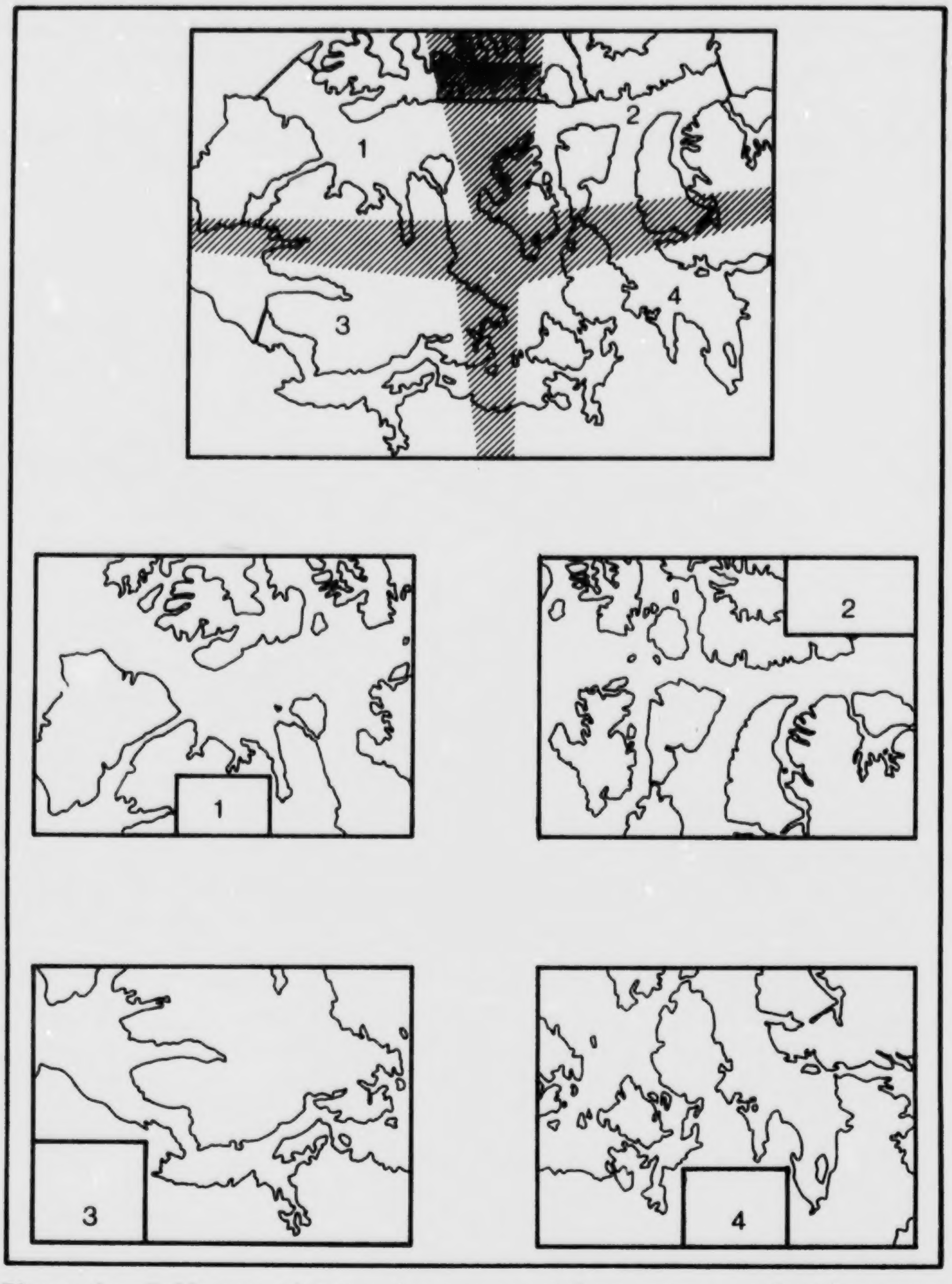


Figure 4: Full area plotting base map and four sub-area plotting maps. The full area map is scaled 1:7,000,000, the others 1:4,000,000. All are Lambert Conformal Conic projection.

5. DATA RATING AND APPRAISAL

5.1 TYPES OF DATA

5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements at discrete depths (ideally the international standard depths) by means of reversing thermometers and sampling bottles. Temperature accuracies of 0.01°C may be achieved by averaging two or more carefully read, well-calibrated thermometers. Some investigators have used hydrometers ($\pm 0.2^{o}$/oo) and refractometers ($\pm 0.5^{o}$/oo) for the determination of salinity, but up to 1960 salinity was usually obtained by titrating the water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to 0.01^{o}/oo. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of 0.003^{o}/oo can be obtained with the better instruments, although in the past, systematic errors of up to 0.02^{o}/oo could be introduced by variations in the standard water used to calibrate these instruments. New international standards for salinity should eliminate the latter source of error (Lewis and Perkin, 1978).

5.1.2 CTD DATA

CTD data are data produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of depth. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of 0.005°C and 0.005^{o}/oo, although accuracy in salinity, until recently, was limited to approximately $\pm 0.02^{o}$/oo because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

5.1.3 BATHYTHERMOGRAPH

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of depth. Its information is produced as a trace on a smoked glass slide which can be read to an accuracy of ±0.2°C and ±2 m depth if well calibrated. BTs were widely used in conjunction with reversing thermometers but have largely been superseded by the CTD.

5.1.4 SELF-RECORDING CURRENT METERS

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. In the Arctic, such meters are moored from the sea floor, or hung beneath the ice surface. Meters of this type generally record internally on magnetic tape (in some older models photographic film or paper charts were used) or, rarely, telemeter data to a ship- or shore-receiving station. They generally provide time series of current speed and direction, and may have other sensors (such as temperature, pressure or conductivity) mounted as well. Current speed and direction are usually measured by one of two methods: either by a propellor or rotor with a vane for direction sensing, or by measuring two orthogonal components of the current speed. Component speeds may be measured by propellors, electromagnetic or acoustic speed sensors. Direction reference is provided either by a magnetic compass or in the case of instruments mounted from ships or from the ice, by using torsionally rigid suspension materials which allow directional reference to be fixed at the surface. Commonly used instruments employing the propellor and vane system are the Aanderaa and Hydroproducts meters; those employing the component measuring system are the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown VACM (acoustic), and the Davis-Weller (orthogonal propellors).

The precision and accuracy of current meters depend to a great degree both on the design of the instrument, and on the environment in which it is used. Serious problems are encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

Special problems in direction measurement are encountered when using compasses in the Canadian Arctic because of the weak horizontal component of the magnetic field due to the proximity of the magnetic pole. Directional accuracies are generally degraded unless the current meter is oriented at the surface via rigid coupling.

5.1.5 PROFILING CURRENT METERS

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propellor or rotor and vane design, the oldest common example being the Ekman meter. Measurements usually are taken from the ice, or from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. The directional precision of the measurements can be degraded by the proximity of the magnetic pole. Unless repeated profiles were taken so as to form a time series, this type of data were not generally catalogued (see Appendix 2).

5.1.6 SATELLITE-TRACKED DRIFTERS

Satellite-tracked drifters are a comparatively recent invention, dating from the early 1970's. Widespread use of these devices began after the launch of the Nimbus VI satellite carrying the Random Access Measurement System (RAMS) in 1975. In early 1979, the TIROS-N satellite was launched activating System ARGOS which is now used to track all devices.

Both RAMS and System ARGOS compute position from the Doppler shift of a signal transmitted from the buoy to the satellite. On each pass of the satellite the position (and any other data being measured) is received and sent to a ground facility where the data are processed. The RAMS system produced positional accuracies of approximately ±2 km. Prior to summer, 1978, RAMS produced an average of 8 valid fixes per day in northern latitudes. During the remainder of 1978, the number of fixes per day declined to 4 and then to 2 by the end of the year. The ARGOS system has an average positional accuracy of ±1.2 km, and produces an average of 10 valid position fixes per day in northern latitudes (Fissel, 1980a).

5.1.7 RADAR OR AIRCRAFT-TRACKED DRIFTERS

This type of drifter usually consists of a float (with or without a drogue) and a radar reflector or visual marker. These devices can be tracked visually or by radar from shore or from a ship or aircraft. The accuracies achievable depend upon the tracking system used, and can be very good if a sophisticated system is available. Data of this type are often limited in their coverage in space and time, and may have gaps resulting from bad weather.

5.1.8 WATER LEVEL GAUGES

Water level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. The pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges (usually used at the permanent gauge locations) record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ±1 cm, and an accuracy of the order of ±5 to 10 cm. The resolution of the bottom pressure gauges varies from a millimetre to a centimetre, depending upon the instrument type and range. Sampling intervals generally vary between 5 and 60 minutes. Unless corrections are made, bottom-pressure records will also contain signals caused by variations in atmospheric pressure.

5.2 DATA RATING SCALE

5.2.1 RATING CRITERIA

The data appraisal in this inventory is intended to provide the reader with an indication of the utility of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and the investigator's estimate of its precision, accuracy and utility. Reports of any subsequent analysis or processing of the data were also taken into account, i.e. if errors were found in a particular data set during a subsequent analysis, and the results were published, they were used in the assessment.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, briefly defined as follows:

0: data are found to be wrong.
1: data suspect because of ill-defined doubts.
2: insufficient information, was not or could not be investigated.

3: data are internally consistent - patterns or trends within data probably real but comparison with other data sets may pose problems.
4: data are internally consistent and exhibit sufficient standardization that comparison with other 4 rated data should be possible.

5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a zero rating if serious deficiencies in technique, or significant systematic errors occurred. A zero rating was also assigned if the documentation of the data set was lacking necessary information (e.g. if the positions and times of measurements were not given) and if it seemed likely that the information had never been recorded. Future discoveries of missing information would allow upgrading of the rating in those cases.

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation, but which may exist (usually data from a central data bank or another catalogue).

3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision is a measurement of the degree of random fluctuation experienced when a measurement is repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data is normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the measurement series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 1 was found, but which were not measured with the highest precision and accuracy attainable with the present-day instruments described in Section 5.1.

Caution should be exercised when comparing two sets of 3 rated data, as their levels of precision may be quite different. The reader should consult both Table 1 and Appendix 1 for precision and error information.

4 RATING

Data received a rating of 4 if they were measured to the precision available with the modern methods described in Section 5.1, and there was no evidence of systematic or other errors recorded in the documentation.

The bulk of the data in the catalogue is temperature/salinity measurements. Until about 1965, water samples were collected with bottle casts and salinity was determined by titration. From the late 60's on, instruments which measured conductivity and temperture in situ (CTDs) became the standard. Salinity was then computed from the temperature and conductivity values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Because of this, ratings of 4 were reserved for high quality CTD data, whereas bottle data, due to the coarser resolution, could only receive a maximum rating of 3.

Both methods of salinity determination depend on a standard (usually $35^{o}/oo$ Copenhagen water); variability in the calibration of the instrumentation has in the past resulted in systematic errors of up to $0.02^{o}/oo$. During intercalibration of Norwestlant 1-3 data, the same samples were sent to various labs; salinities determined by these labs differed by 0.01 to $0.02^{o}/oo$ (Lee and Jones, 1968).

A new, practical salinity scale, where waters of the same conductivity ratio have the same salinity has been proposed (Lewis and Perkin, 1978) and if implemented should reduce systematic errors in salinity. However, most of the historical data remains subject to the $\pm 0.02^{o}/oo$ accuracy limitation. Comparisons of data sets must be done with this in mind.

Current meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors due to inadequate compensation for the weak horizontal component of the earth's magnetic field, and contamination by mooring motion and wave orbital velocities.

Much of the water level data was received from MEDS with little supporting information. This resulted in the 2 rating for many of these data sets. It may be possible to improve the rating by further searching the files at MEDS and at the tidal section of the Institute of Ocean Sciences at Sidney, B.C.

6. SUMMARY OF DATA COVERAGE

6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

BOTTLE/CTD

Figure 5 is a plot of all bottle/CTD stations in the Northwest Passage, 1928-1981. Barrow Strait and Lancaster Sound received the most concentrated scientific probing because of the relative accessibility of Lancaster Sound in summer via ship through Baffin Bay, and the presence of a suitable field program staging centre at Resolute. A detailed environmental survey covering Lancaster Sound in 1978-1979 greatly increased the total number of stations in this area. Prince of Wales Strait was also fairly well sampled, being part of the classic route for ship travel through the Passage. Prince Regent Inlet received moderate attention due to its nearness to the accessible eastern Parry Channel. The stations in Fury and Hecla Strait are primarily the result of programs conducted by Defence Research Establishment Pacific. The remaining areas were less well sampled, in particular M'Clintock Channel which is usually heavily congested with ice.

CURRENT METER

The distribution of current meters (Figure 6) is similar to that of the bottle/CTD's; in many oceanographic programs the two data types are required. The concentrations of current meter stations in Lancaster Sound, Bridport Inlet, M'Clure Strait, and Dolphin and Union Strait, all resulted from a need for engineering and environmental data. The current meters in Fury and Hecla Strait, and Barrow Strait, were installed as part of more general scientific programs.

WATER LEVEL

The locations of water level gauging stations (Figure 6) are fairly evenly distributed in the study area, the majority being shore based.

6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

BOTTLE/CTD

The monthly distribution of bottle CTD stations is bi-modal with peaks in March-April and August (Figure 7). The March-April peak results from the relatively favourable conditions of adequate light and stable ice platforms (before spring breakup), whereas the August peak is due to the minimum ice conditions for ship work. There is a conspicuous lack of water mass information during winter and spring breakup. The total number of known (to July 1982) bottle/CTD data are presented as bi-monthly plots in Figure 8.

CURRENT METER

The monthly distribution of current meter data (Figures 9) is basically the same as that of bottle/CTD. The ease of hanging meters from the ice results in the April peak. Again, data during winter and spring break-up are lacking.

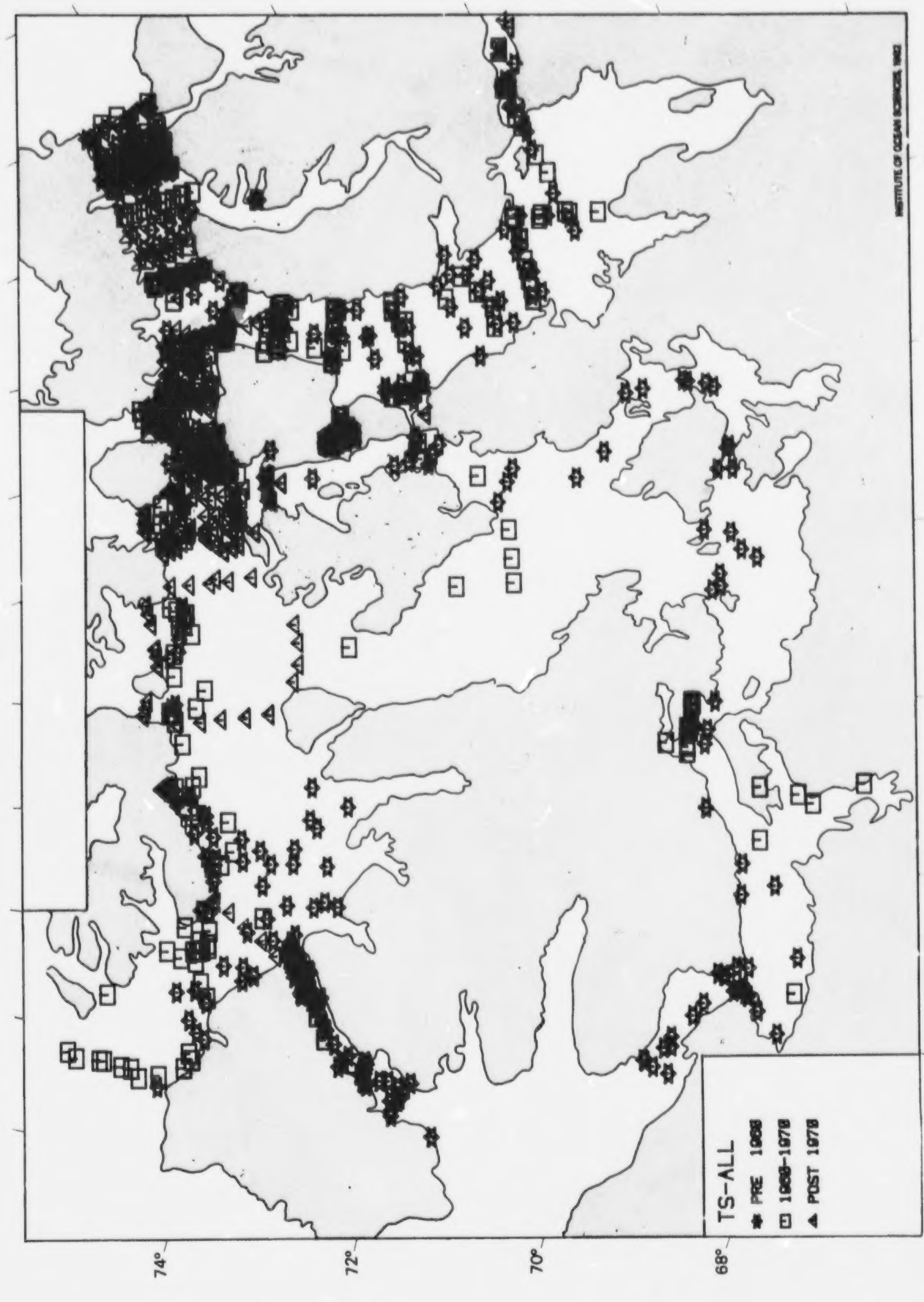

TS-ALL
PRE 1968
1968-1978
POST 1978
90°
95°
100°
105°
110°
115°
74°
72°
70°
68°
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 5: The locations of temperature-salinity data obtained in the study area.

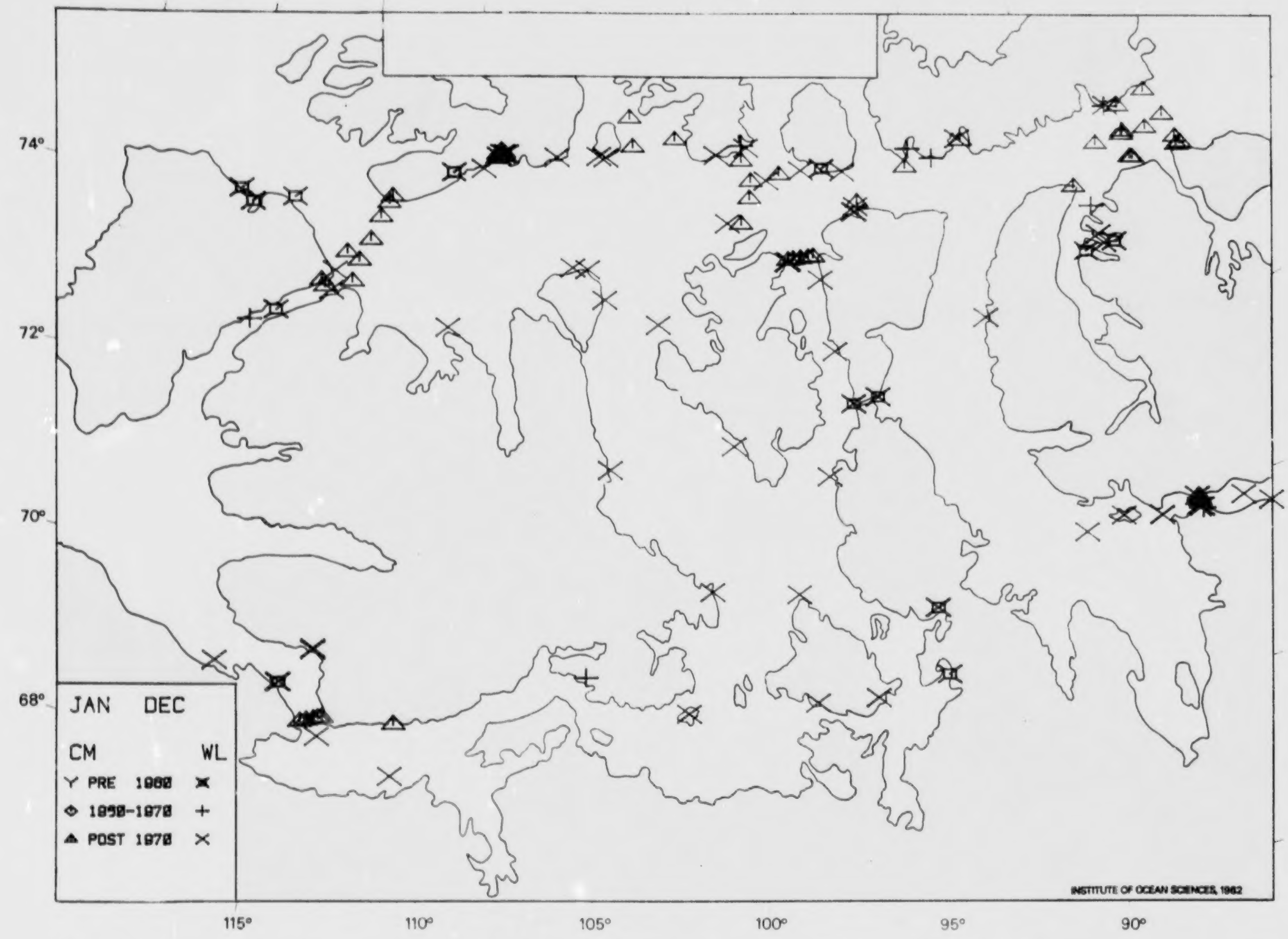

74°
72°
70°
68°
115°
110°
105°
100°
95°
90°
JAN DEC
CM
WL
PRE 1960
1950-1970
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 6: Locations of current meter and water level stations in the study area.

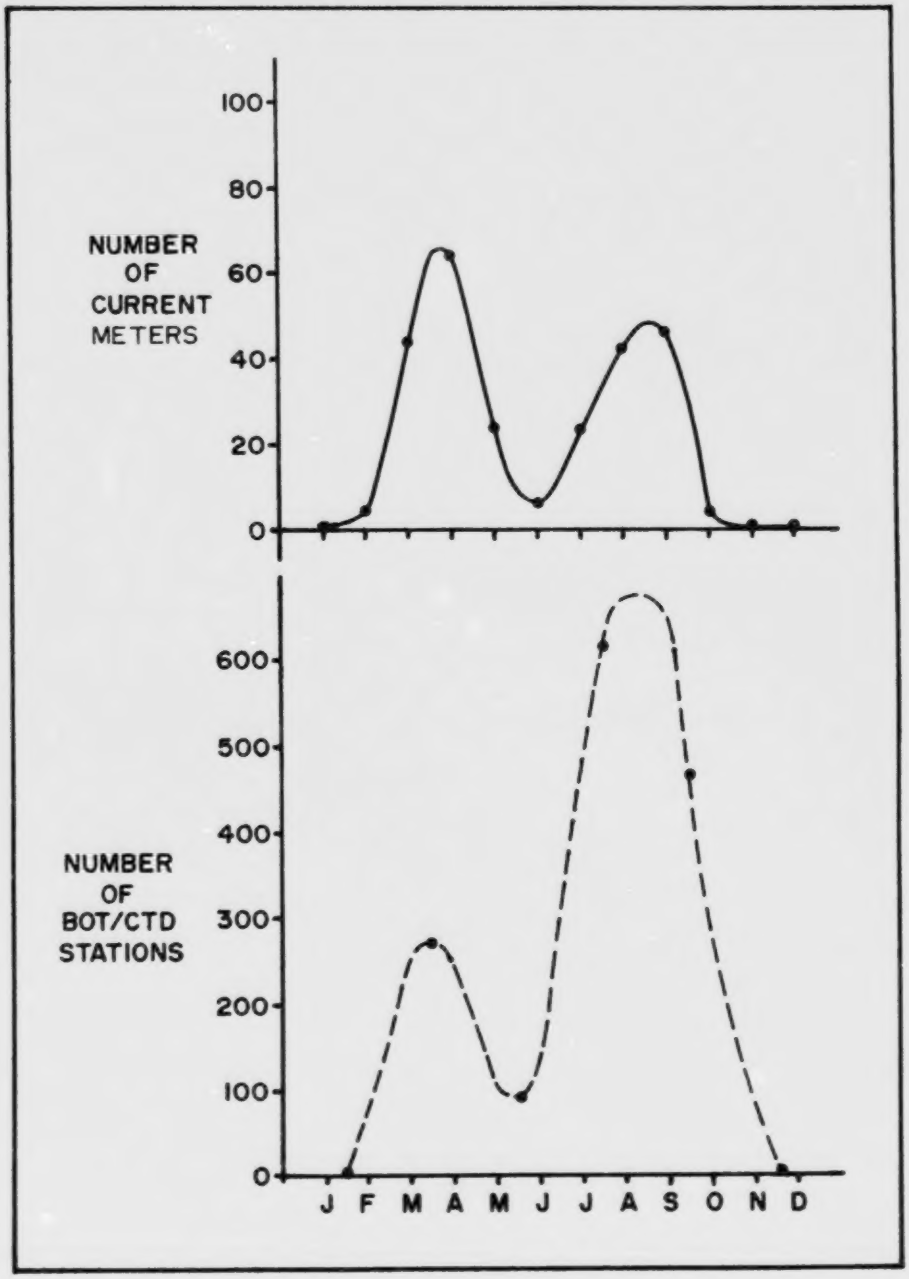
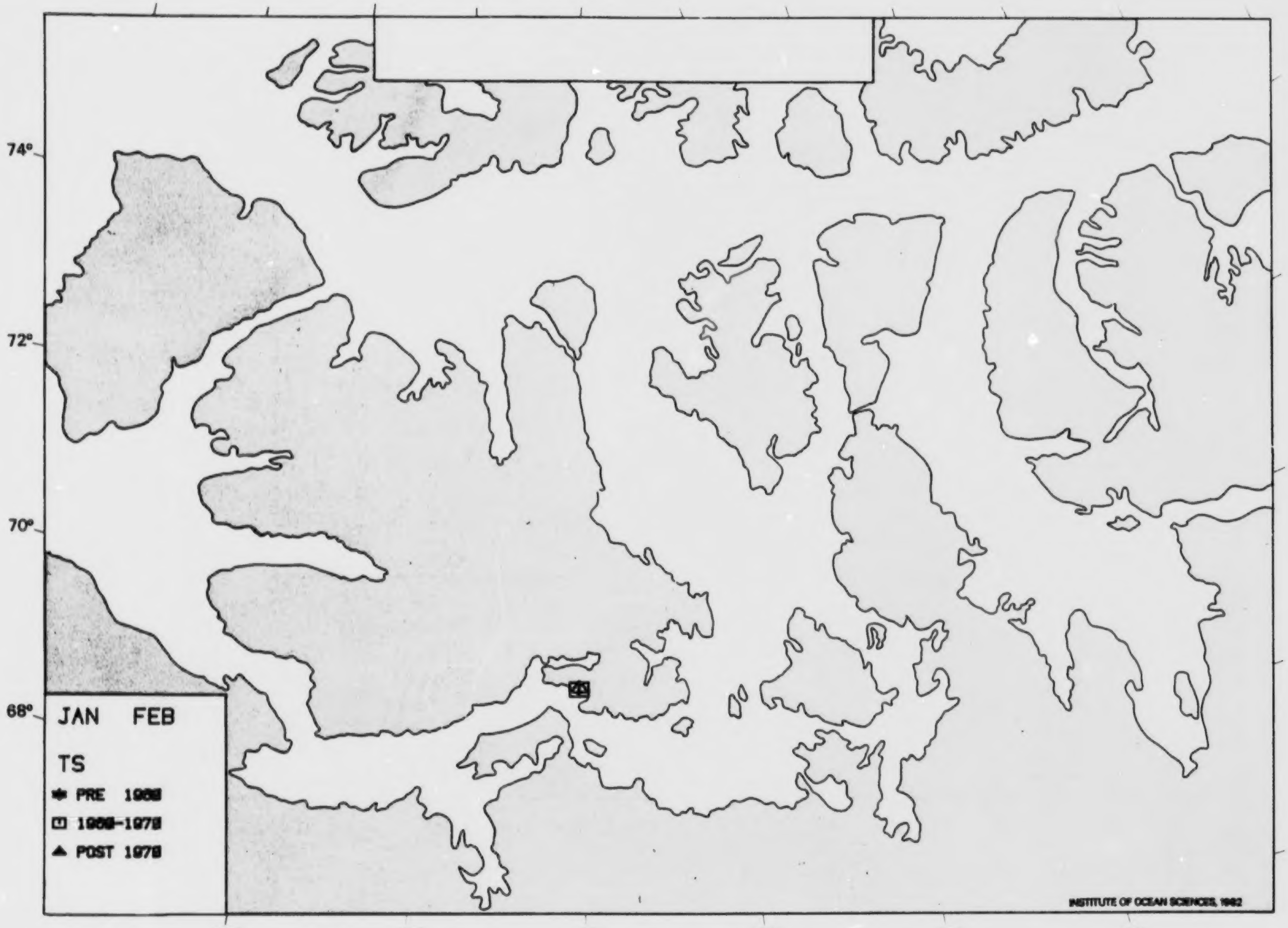


Figure 7: Monthly distribution of bottle/CTD and current meter stations.


74°
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105°
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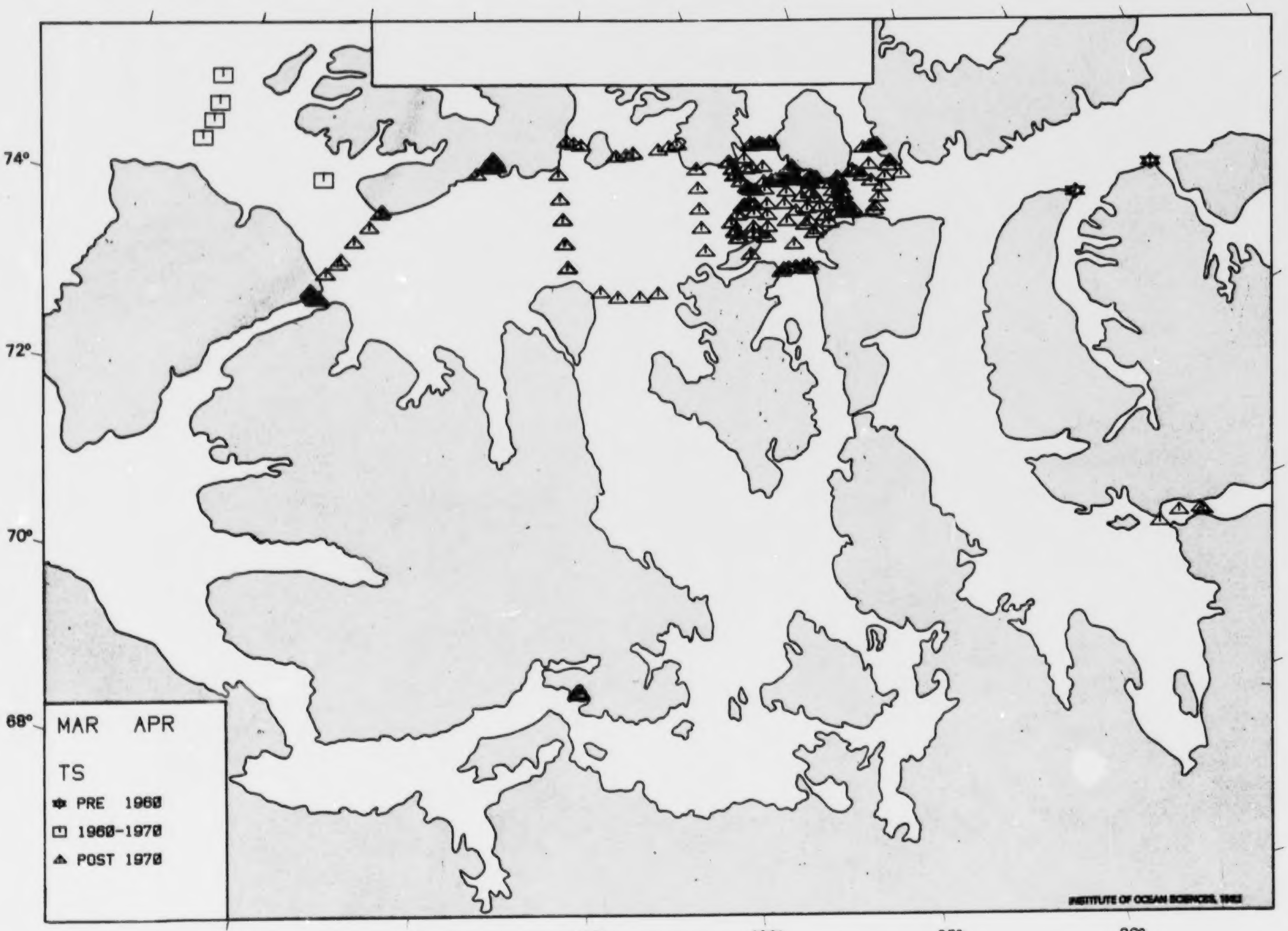
JAN FEB
TS
✱ PRE 1960
□ 1960-1970
▲ POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(a): The locations of temperature-salinity profile data collected during the January-February period, all years.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MAR APR
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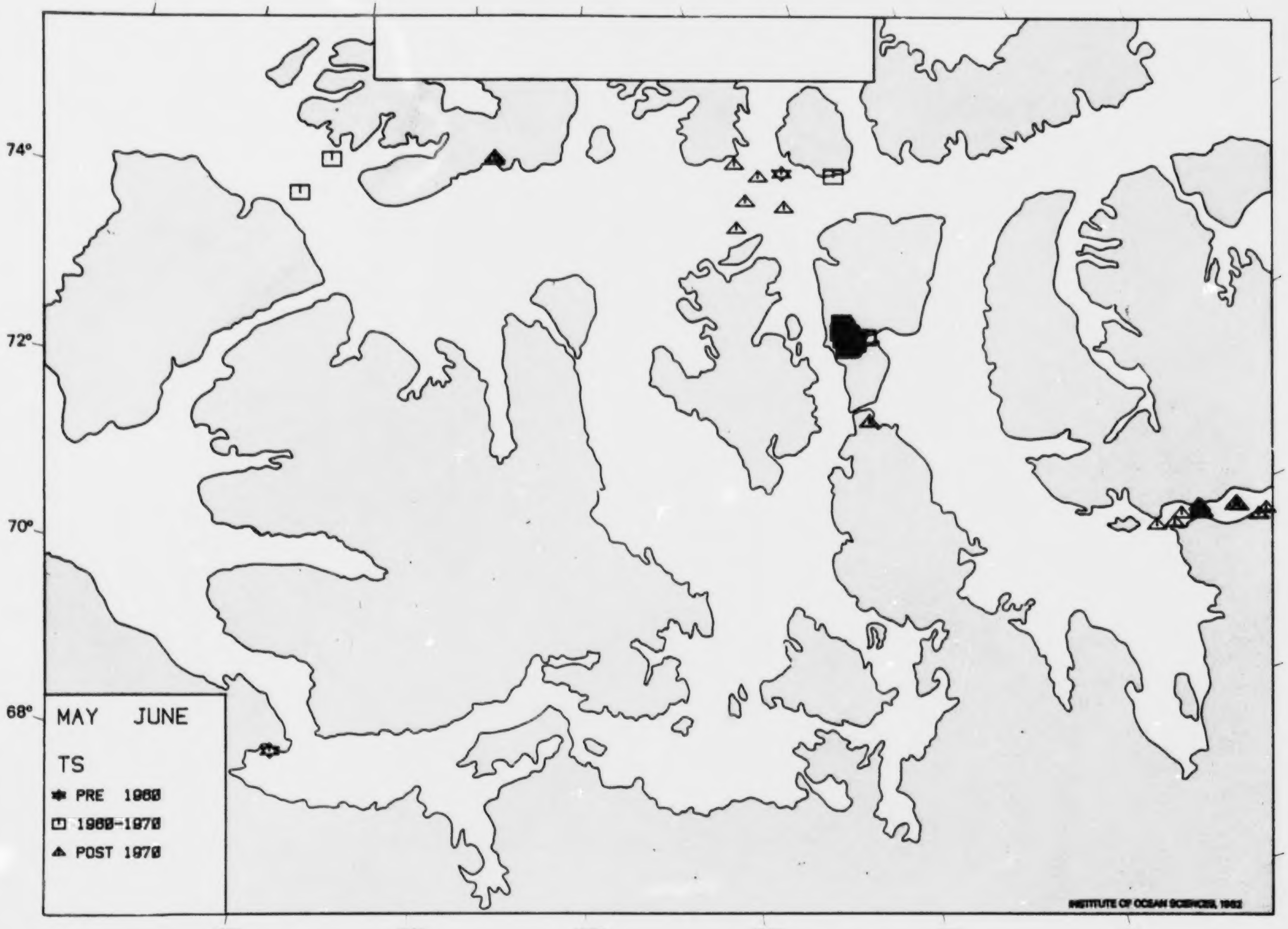
✱ PRE 1960
☐ 1960-1970
▲ POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(b): The locations of temperature-salinity profile data collected during the March-April period, all years.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MAY JUNE
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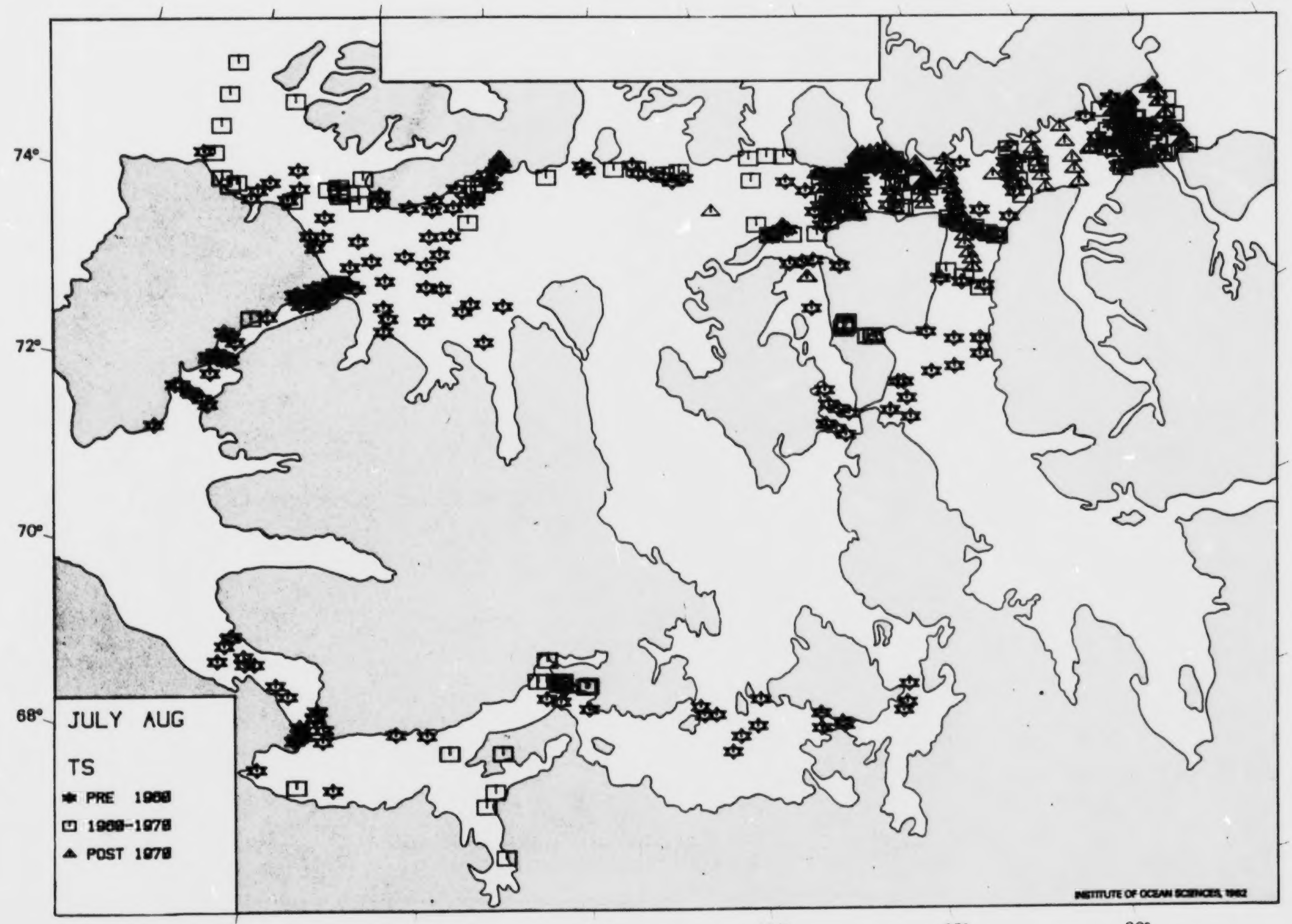
✱ PRE 1960
☐ 1960-1970
▲ POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(c): The locations of temperature-salinity profile data collected during the May-June period, all years.


74°
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JULY AUG
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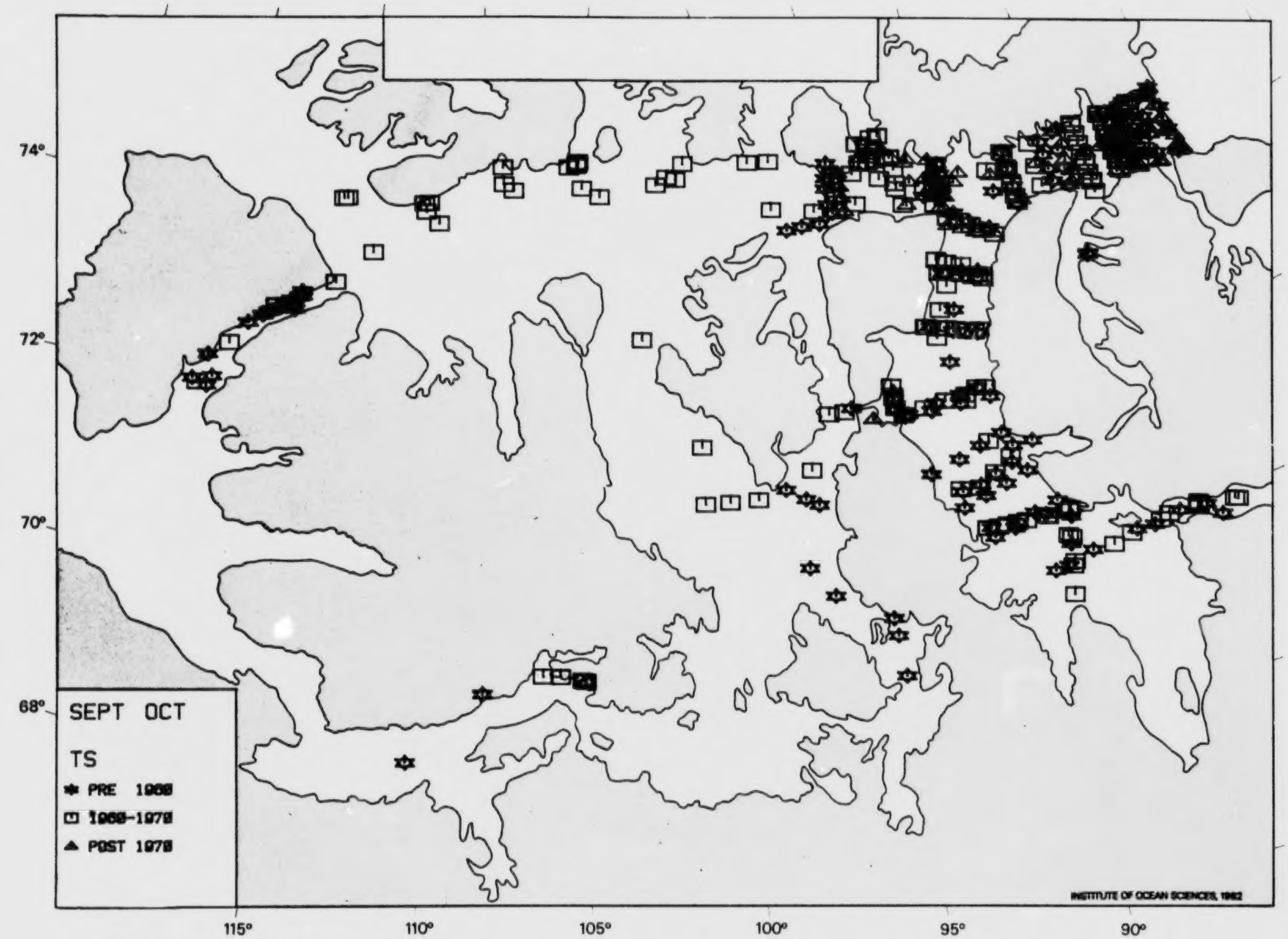
☐ 1960-1970
▲ POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(d): The locations of temperature-salinity profile data collected during the July-August period, all years.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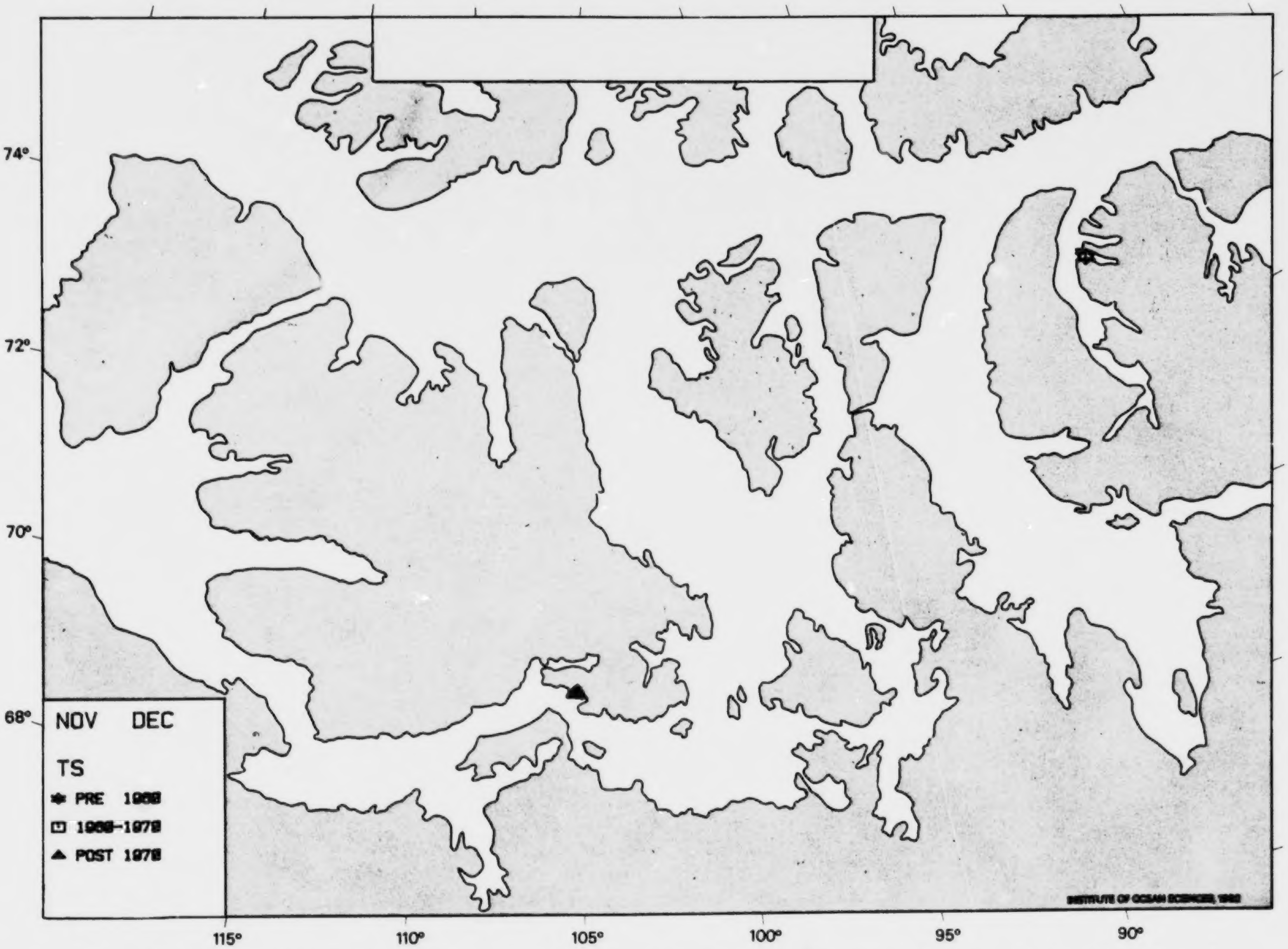
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(e): The locations of temperature-salinity profile data collected during the September-October period, all years.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NOV DEC
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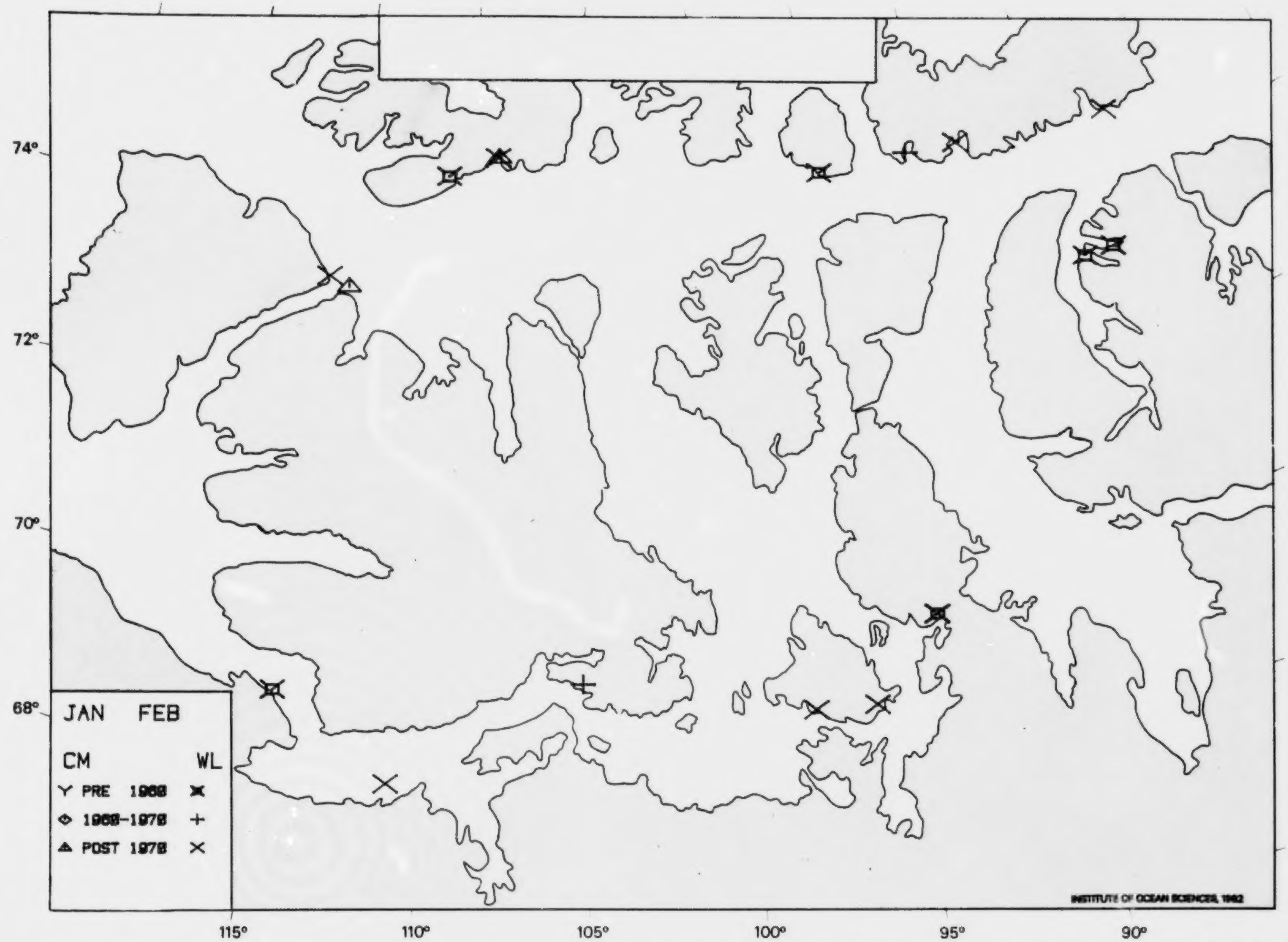
☐ 1960-1979
▲ POST 1979
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8(f): The locations of temperature-salinity profile data collected during the November-December period, all years.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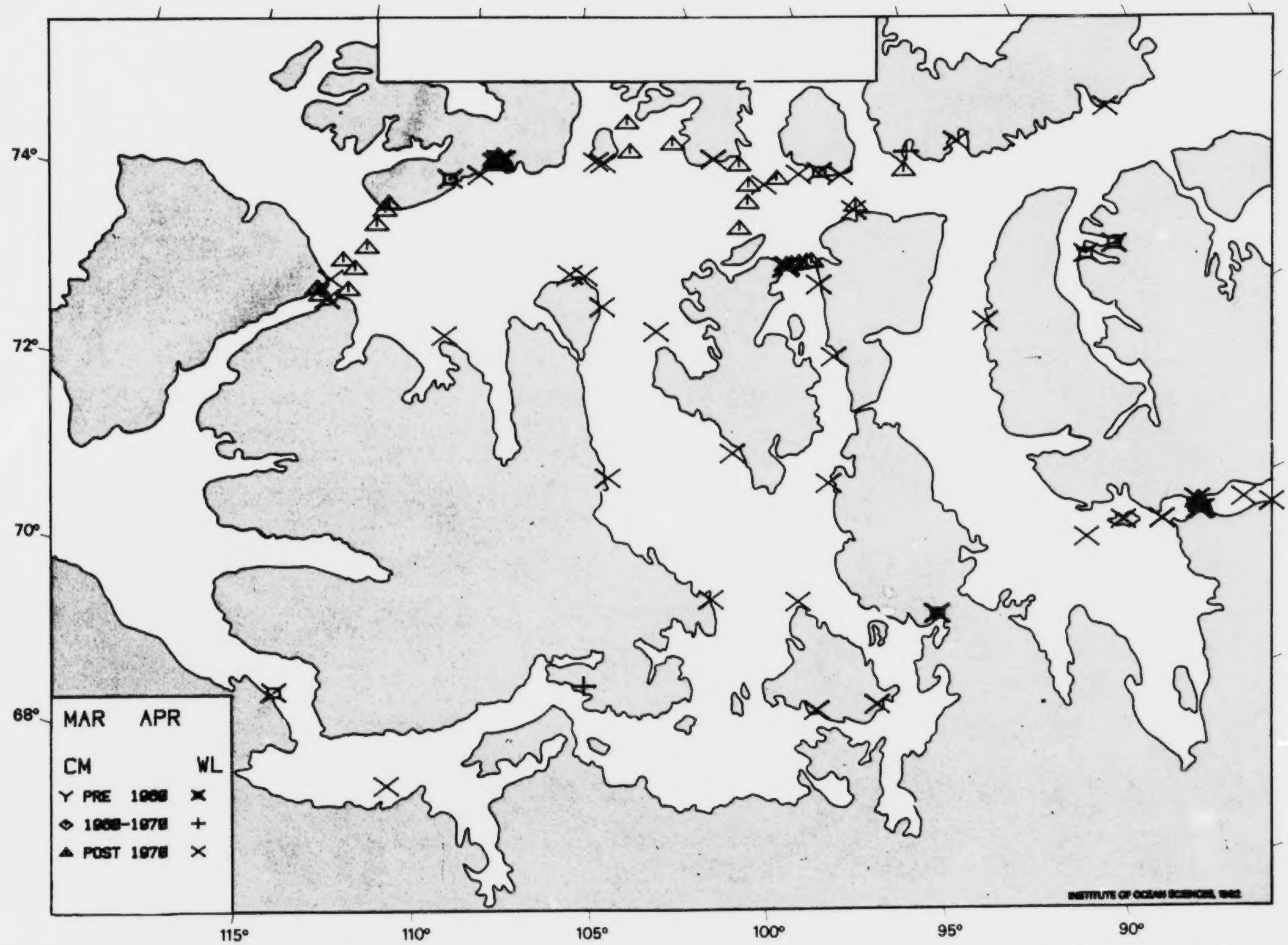
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(a): The locations of all current meter and water level stations in place during January-February, all years.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MAR APR
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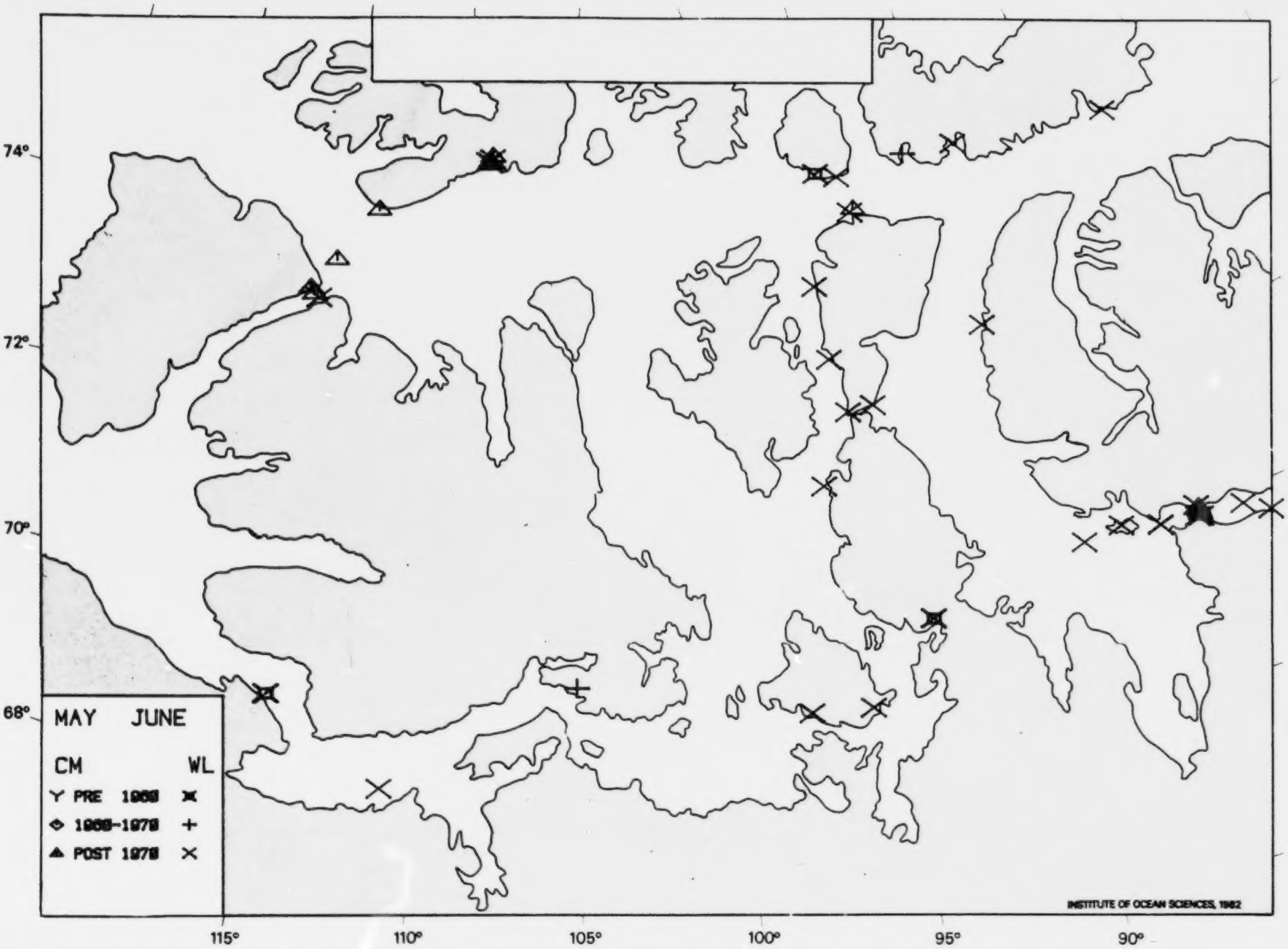
PRE 1960
1960-1970
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(b): The locations of all current meter and water level stations in place during March-April, all years.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MAY JUNE
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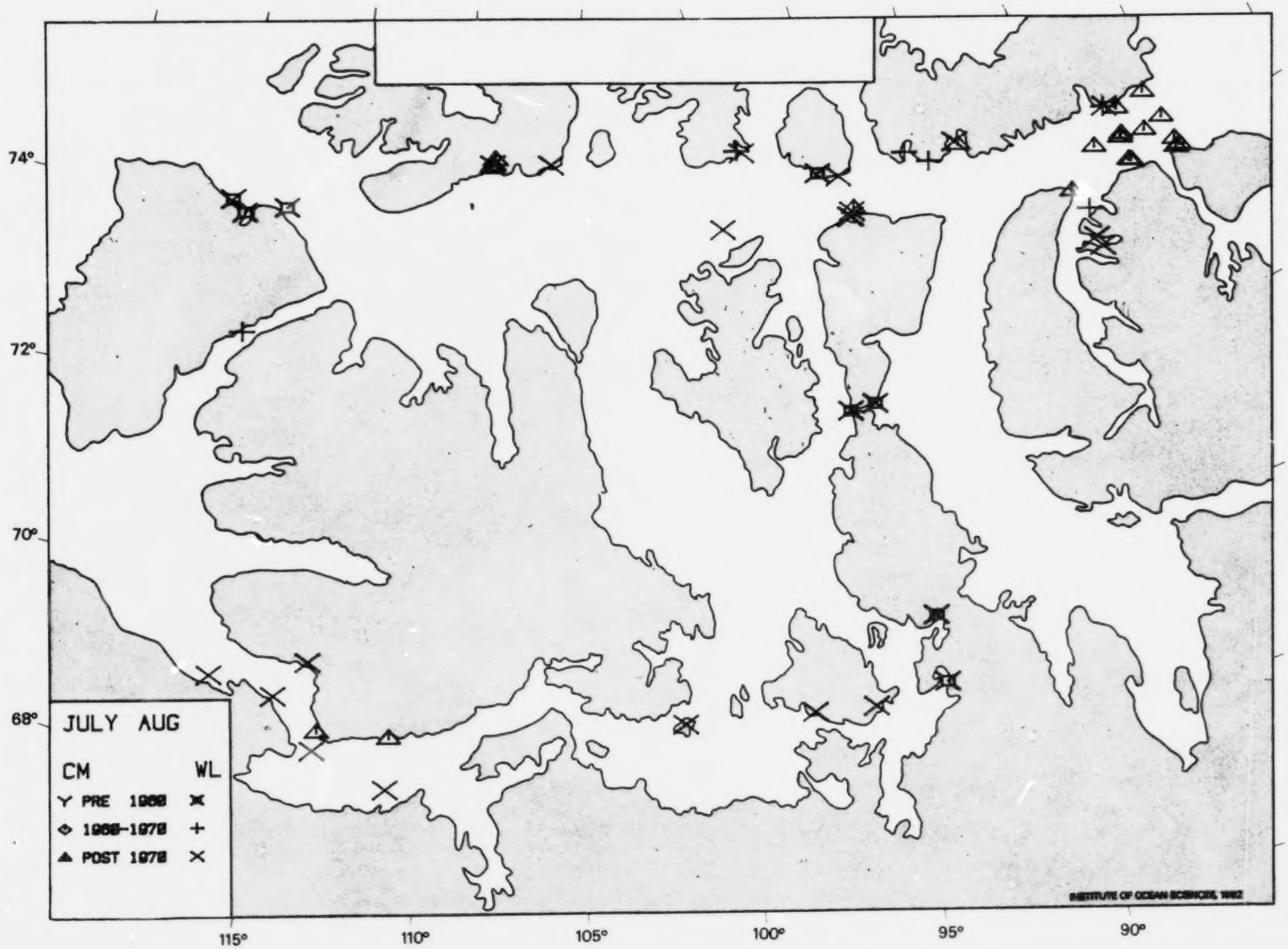
Y PRE 1960 ✱
◇ 1960-1970 +
▲ POST 1970 ×
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(c): The locations of all current meter and water level stations in place during May-June, all years.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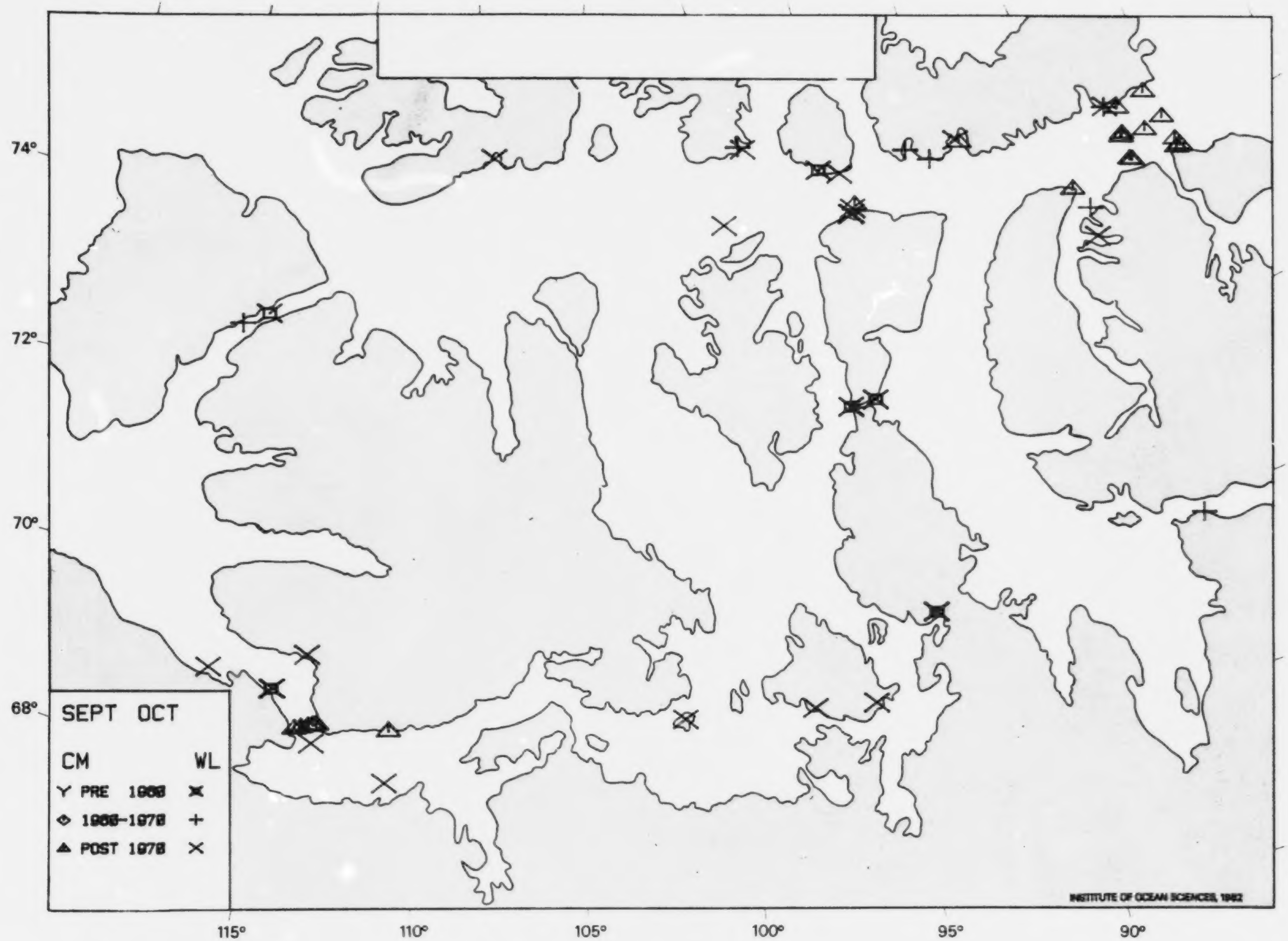
JULY AUG
CM
WL
Y PRE 1960 ✱
◇ 1960-1978 +
▲ POST 1978 ×
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(d): The locations of all current meter and water level stations in place during July-August, all years.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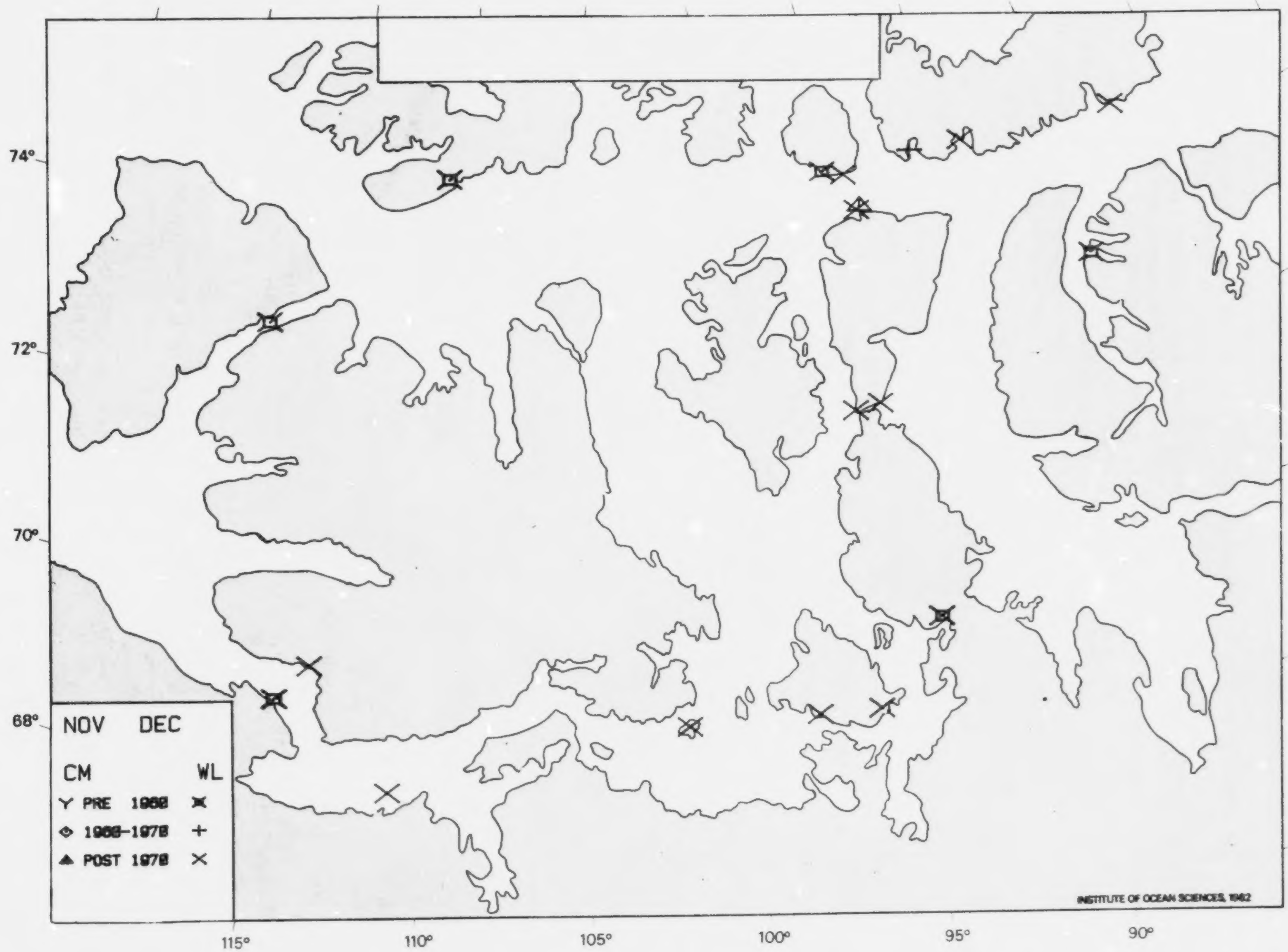
◇ 1968-1978 +
▲ POST 1978 ×
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(e): The locations of all current meter and water level stations in place during September-October, all years.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◇ 1960-1970 +
▲ POST 1970 ×
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9(f): The locations of all current meter and water level stations in place during November-December, all years.

6.3 SYNOPTIC DATA SETS AND EXTENDED TIME SERIES

SYNOPTIC DATA SETS

In some years the existence of two or more data sets collected at the same time provides a combined data set with near-synoptic coverage over a relatively large area. Data sets were considered near-synoptic if their measurement periods overlapped significantly. The combined data sets may improve coverage within a given area, extend coverage to a larger area or allow comparison of simultaneous processes in different areas. In the Northwest Passage, possibilities for combinations are largely confined to temperature-salinity data collected during the open water season. The table below lists near-synoptic data sets by year and general area of coverage.

LIST OF NEAR-SYNOPTIC DATA SETS

1954

Data set number	Area
54-0001	Lancaster Sound, Barrow Strait, Viscount Melville Sound
54-0002	M'Clure Strait, Viscount Melville Sound, Prince of Wales Strait
54-0003	M'Clure Strait, Viscount Melville Sound, Prince Wales Strait

1957

Data set number	Area
57-0001 57-0003	Eastern & southern study area

1961

Data set number	Area
61-0003	Gulf of Boothia
61-0004	Lancaster Sound, Barrow Strait, Prince Regent Inlet

1976

Data set number	Area
76-0008	Lancaster Sound
76-0011	Lancaster Sound, Barrow Strait

There are no years where truly synoptic coverage of the entire area exists. The most synoptic data set will probably be the 1982 results collected as a Department of Fisheries and Oceans program by the Institute of Ocean Sciences (Sidney, B.C.), Bayfield Laboratory (Burlington, Ontario) and Arctic Sciences Ltd. (Sidney, B.C.). At the time of writing analysis of the data was in progress.

EXTENDED TIME SERIES

Extended time series, on the scale of years, (apart from water level data) consist mainly of bottle/CTD data in the eastern parts of the study area. Temperature/salinity data for Lancaster Sound were collected in 1928, 1946, 1954, 1956, 1957, 1960-1962, 1966, 1970 and 1976-1980. Fissel et al. (1981) used much of this data to study the year to year variability of the surface circulation in Lancaster Sound.

The Institute of Ocean Sciences measured the temperature and salinity of Cambridge Bay in a comprehensive program covering the four periods of September and December, 1971, and February and April, 1972.

Year-to-year variability of water characteristics in the Barrow Strait area could be studied using the 1954, 1956, 1957, 1960-1962, 1967, 1972, 1973 and 1976-1981 bottle/CTD data sets.

Similarly the Prince Regent Inlet/Gulf of Boothia system has temperature/salinity data sets for the years 1956, 1957, 1960, 1961 and 1962.

There are no synoptic or extended current meter time series data sets, as of spring 1982.

6.4 CONCLUSIONS

This catalogue of physical oceanographic data for the Northwest Passage allows oceanographers and others to determine the coverage and quality of data pertaining to their areas of interest. The inventory at present contains 125 data sets which have been collected primarily by industry, government and universities. Most of the data are temperature/salinity data collected since 1954. Generally standard oceanographic techniques were used and the data are of good quality. Most data were collected during summer. As well as the lack of data during winter, there are several areas which have been sparsely sampled. M'Clintock Channel, Committee Bay, Queen Maud and Coronation Gulfs all lack comprehensive temperature/salinity data coverage.

Direct current measurements are required to determine circulation and these are lacking in all but a few areas, notably eastern Lancaster Sound, Fury and Hecla Strait, Barrow Strait, Dolphin and Union Strait, and M'Clure Strait. The data base to July 1982 is insufficient in many areas to determine circulation, let alone variability in the flow patterns.

Sixty data sets received a rating of 2, generally because no documentation could be found. Of the 60, 27 were water level data sets. Anyone interested in using these data should check with the collecting agency and attempt to determine the collecting techniques and the quality of the data sets.

The inventory has shown which data sets complement each other (Section 6.3) and could benefit from further analyses. Some data sets, such as the McGill University current meter data in Barrow Strait in 1978 (ID# 78-0004), have not been fully processed. These should be properly analyzed and their results made available.

7. REFERENCES

Apollonio, S., 1957. Plankton productivity studies in Allen Bay, Cornwallis Island, N.W.T. 1956. Woods Hole Oceanographic Institution, Woods Hole, Mass. Unpubl. man. 8 pp.

Apollonio, S., 1976. Primary production in the Canadian Arctic Archipelago, 1961-1963. Arctic Inst. of North America, Montreal, Canada. Bigelow Lab. for Oc. Sc., West Boothbay Harbour, Maine. Contrib. 76016. Unpubl. man. 88 pp.

Apollonio, S., Undated. Phytoplankton production in the Canadian Arctic. Unpubl. man. in the collection of the library, Arctic Inst. of North America, Calgary. 38 pp.

B.C. Research, 1975. Baseline survey of the marine environment at Strathcona Sound, N.W.T. Unpubl. Prog. Rep. No. 1 for Strathcona Mineral Services. Vancouver, B.C. 84 pp.

Bailey, W.B., 1955. Oceanographic reconnaissance in the Canadian Archipelago (1954). Fish. Res. Board Can. MSS Rept. Biol. Sta. No. 603, 145 pp.

Bailey, W.B., 1957. Oceanographic features in the Canadian Archipelago. J. Fish. Res. Board Can. 14: 731-769.

Bain, H., D. Thompson, M. Foy and W. Griffiths, 1977. Marine ecology of fast-ice edges in Wellington Channel and Resolute Passage, N.W.T. Unpubl. rep. by LGL, Toronto for the Polar Gas Project. 262 pp.

Barber, F.G., 1965. Current observations in Fury and Hecla Strait. J. Fish. Res. Board Can. 22: 225-229.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic archipelago. An atlas presentation of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa, Man. Rep. Ser. No. 21, 76 pp.

Barber, F.G. and T.S. Murty, 1975. A preliminary note on the oceanography of Strathcona Sound. Marine Sciences Directorate, Ottawa, Oct. 1975. 23 pp.

Bedford Institute of Oceanography, 1974. Cruise Report No. 74-026, Part 1. Atl. Geoscience Centre, Dartmouth, N.S. 25 pp.

Bedford Institute of Oceanography, 1976. Cruise Report No. 76-023. Atl. Geoscience Centre, Dartmouth, N.S. 9 pp.

Bedford Institute of Oceanography, 1977. Cruise Report No. 77-024. Atl. Ocean. Lab., Dartmouth, N.S. 45 pp.

Bedford Institute of Oceanography, 1980. Cruise Report No. 80-027. Dartmouth, N.S. 38 pp.

Bernier, J.E., 1909. Report of the Dominion Government expedition to the Arctic islands and Hudson Strait on board the C.G.S. Arctic, 1906-1907. King's Printer, Ottawa. 127 pp.

Bernier, J.E., 1910. Report of the Dominion of Canada Government expedition to the Arctic islands and Hudson Strait on board the C.G.S. Arctic, 1908-1909. Government Printing Bureau, Ottawa. 529 pp.

Bernier, J.E., 1911. Report on the Dominion Government expedition to the northern waters and Arctic Archipelago on the C.G.S. Arctic in 1910. King's Printer, Ottawa.

Birch, J.R., 1980a. 1979 Nearshore studies of the physical oceanography of Cape Warrender, Cape Fanshawe and Cape Hay. Data Report No. 5. Unpubl. man. by Arctic Sciences Ltd.,Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 129 pp.

Birch, J.R., 1980b. Analysis of water level record for Johnson Bay, N.W.T., August 22, 1978 - May 12, 1979. Data Report No. 6. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 43 pp.

Brooks, D.J., 1981. Arctic oceanographic survey, Barrow Strait - 1981 field report. Ocean and Aquatic Sciences, Ocean. Div., Bayfield Laboratory, Burlington, Ontario. Unpubl. man. 66 pp.

Buchanan, R.A., W.E. Cross and D.H. Thompson, 1977. Survey of the marine environment of Bridport Inlet, Melville Island. Unpubl. rept. by LGL, Toronto for Petro-Canada Ltd., Calgary, December, 1977. 265 pp.

Campbell, N.J. and A.E. Collin, 1956. A preliminary report on some oceanographic features of Foxe Basin. Joint Committee on Oceanography. Man. Rep.

Canadian Hydrographic Service, 1968. Pilot of Arctic Canada. Vol. 1, second edition.

Canadian Oceanographic Data Centre, 1963. Five Arctic surveys. Report No. 4-1963. Data Record Series. 90 pp.

Canadian Oceanographic Data Centre, 1964. Eastern Arctic - 1960. Data Rec. Ser. No. 18. 204 pp. plus illustrations.

Canadian Oceanographic Data Centre, 1966. Arctic 1961. August 2 -October 12, 1961 Data Rec. Ser. No. 12. 332 pp. plus illustrations.

Canadian Oceanographic Data Centre, 1966b. Arctic, Hudson Bay and Hudson Strait. August 5 - October 4, 1962 Data Rec. Ser. No. 4. 247 pp. plus illustrations.

Canadian Oceanographic Data Centre, 1967. Baffin Bay, 1962. September 25 - October 24, 1962 Data Rec. Ser. No. 4. 169 pp. plus illustrations.

Canadian Oceanographic Data Centre, 1968. Hudson Bay, Hudson Strait and Arctic. July 21-Sept. 9,1967 Data Rec. Ser. No. 4.,123 pp. + illustr.

Codispoti, L.A. and T.G. Owens, 1975. Nutrient transports through Lancaster Sound in relation to the Arctic Ocean's reactive silicate budget and the outflow of Bering Strait waters. Limnol. and Oceanog. 20: 115-119.

Collin, A.E., 1958. An oceanographic study of Prince Regent Inlet, the Gulf of Boothia and adjacent waters. Fish. Res. Bd. Can., Man. Rep. Ser. (Limnol. & Oceanog.) No. 13. 66 pp.

Collin, A.E., 1960. Oceanographic observations in the Canadian Arctic and the adjacent Arctic Ocean. Arctic 13: 194-201.

Collin, A.E., 1962. On the oceanography of Lancaster Sound. Ph.D. Thesis, McGill University, Montreal. 204 pp.

Collin, A.E., 1962b. The waters of the Canadian Arctic Archipelago. Bedford Institute of Oceanography, Dartmouth, N.S. Report B.I.O. 62-2. October 1962. 14 pp.

Collin, A.E., 1963. Waters of the Canadian Arctic Archipelago. In Proceedings of the Arctic Basin Symposium, Oct. 1962. pp 128-139. Arctic Inst. of N.A., Wash., D.C. 313 pp.

Collin, A.E. and M.J. Dunbar, 1964. Physical oceanography in Arctic Canada. In Ocean. Mar. Biol. Ann. Rev. 2. p. 45-75. H. Barnes, ed. George Allen and Unwin, London.

Cooke, A., 1981. A gift outright: The exploration of the Canadian Arctic Islands after 1880. In "A Century of Canada's Arctic Islands, 1880-1980". M. Zaslow, ed. Royal Soc. of Can. 1981, 23rd Symp., Ottawa, Ontario, p. 51-60.

Cornford, A.B., D.D. Lemon, D.B. Fissel, H. Melling, B.D. Smiley, R.H. Herlinveaux and R.W. Macdonald, 1982. Arctic Data Compilation and Appraisal. Volume 1. Beaufort Sea: Physical Oceanography - Temperature, Salinity, Currents and Water Levels. Can. Dat. Rep. Hydrogr. Ocean. Sci. 5. Dept. of Fisheries and Oceans, Ocean Science and Surveys, Ottawa. 279 pp.

Dawson, W.B., 1920. Tidal investigations and results. Can. Arctic Exp. 1913-1918. Rep. Vol. 10: 1-13. Plankton, hydrography, tides (Pt. C). King's Printer, Ottawa.

de Lange Boom, B.R., M.R. MacNeill and J.R. Buckley, 1979. Iceberg tracking in N.W. Baffin Bay and eastern Lancaster Sound from the Hope Monument radar camp. Unpubl. man. by Seakem Oceanography , Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 215 pp. plus illustrations.

Dohler, G.C., 1958. Construction of tide stations at Brevoort Harbour and Resolute, N.W.T., 1957. Dept. of Mines and Tech. Surveys, Surveys and Mapping Branch, Ottawa. 43 pp. plus illustrations.

Dohler, G.C., 1964. Tides in Canadian waters. Env. Can., Can. Hydr. Ser., Ottawa. 16 pp.

Dunbar, M.J., 1951. Eastern Arctic waters. J. Fish. Res. Board Can. 88:1-131.

Dunbar, M. and K.R. Greenaway, 1956. Arctic Canada from the air. Def. Res. Bd. Can., Queen's Printer, Ottawa. 541 pp. plus illustrations.

Ellis, D.V., 1956. Some temperature and salinity records from the Canadian Arctic during 1954 and 1955. J. Fish. Res. Board Can. 13: 591-598.

Fissel, D.B. and J.R. Marko, 1978. A surface current study of eastern Parry Channel, N.W.T. - summer, 1977. Contractor Report Series 78-4 by Arctic Sciences Ltd., Sidney, B.C. for Institute of Ocean Sciences, Sidney, B.C. 66 pp.

Fissel, D.B. and G.R. Wilton, 1978. Subsurface current measurements in eastern Lancaster Sound, N.W.T. - Summer 1977. Contractor report series 78-3 by Arctic Sciences Ltd., Sidney, B.C. for the Institute of Ocean Sciences, Sidney, B.C. 72 pp.

Fissel, D.B., 1980a. Satellite-tracked drifting buoy movements in Baffin Bay and Lancaster Sound, summer 1978 and 1979. Data report no. 2. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 40 pp. plus appendices.

Fissel, D.B., 1980b. Satellite-tracked iceberg movements in Baffin Bay and Lancaster Sound - summer 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 27 pp. plus appendices.

Fissel, D.B. and J.R. Birch, 1980. Current profile measurements in western Baffin Bay and Lancaster Sound, summers of 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 17 pp. plus appendices.

Fissel, D.B. and G.R. Wilton, 1980. Subsurface current measurements in western Baffin Bay and Lancaster Sound, 1978-79. Data report no. 1. Unpubl. man. by Arctic Sciences Ltd.,Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 52 pp. plus appendices.

Fissel, D.B. and J.R. Birch, 1981. A physical oceanographic study of northwestern Baffin Bay, summer 1980. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 455 pp.

Fissel, D.B. and L.E. Cuypers, 1981. A compilation of physical oceanographic data in the channels of the Queen Elizabeth Islands. Unpub. man. by Arctic Sciences Ltd., Sidney, B.C. for the Institute of Ocean Sciences, Sidney, B.C. 95 pp. plus unnumbered appendices.

Fissel, D.B., D.D. Lemon and J.R. Birch, 1981. Environmental Studies No. 25. The Physical Oceanography of Western Baffin Bay and Lancaster Sound. Dept. of Indian and Northern Affairs, Northern Affairs Program, Ottawa. 293 pp.

Fissel, D.B., D.D. Lemon and J.R. Birch, 1982. Major features of the near-surface circulation of western Baffin Bay, 1978 and 1979. Arctic 35: 180-200.

Gade, H.G., R.A. Lake, E.L. Lewis and E.R. Walker, 1974. Oceanography of an Arctic bay. Deep Sea Res. 21: 547-571.

Grainger, E.H., 1963. Copepods of the genus Calanus as indicators of eastern Canadian waters. Roy. Soc. Can. Sp. Pub. No. 5., U. of Tor. Press.

Grainger, E.H., 1965. Zooplankton from the Arctic Ocean and adjacent Canadian waters. J. Fish. Res. Board Can. 22: 543-564.

Greisman, P., 1978. Bridport Inlet, Melville Island - Physical oceanographic and ice surveys - February - June 1978. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Phoenix Ventures, Calgary, Alberta for Petro-Canada, Calgary, Alberta. 118 pp.

Herlinveaux, R.H., 1961. Data record of oceanographic observations made in Pacific Naval Laboratory underwater sound studies, 1961. Fish. Res. Board Can. Man. Rep. Ser. (Limnol. & Oceanog.) No. 108. 185 pp.

Herlinveaux, R.H., 1970. Icepack 8/68 - Oceanographic and biological observations. Fish. Res. Board Can. Nanaimo, B.C., Tech. Rep. No. 159. 60 pp.

Herlinveaux, R.H., 1974. Surface movements in Canadian Arctic waters with some accompanying temperature and salinity observations. Unpubl. Man., Pacific Marine Science Rep., Marine Science Directorate, Pacific Region, Sidney, B.C. 36 pp.

Herlinveaux, R.H. and S.E.G. Wilson, 1974. Oceanographic observations in the Canadian Arctic, September 1972. Env. Can., Fisheries and Marine Service, Marine Sciences Directorate, Pacific Region, Victoria, B.C., Pacific Marine Science Report, February 1974. 24 pp.

Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, 1978. Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., April 1973. Inst. of Ocean Sciences, Sidney, B.C. Pac. Mar. Sc. Rep. 78-4. 170 pp.

Huyer, A. and F.G. Barber, 1970. A heat budget of the water in Barrow Strait for 1962. Unpubl. Man. Rep. Ser. No. 12. Dept. of Energy, Mines and Resources, Mar. Sc. Br., Ottawa. 43 pp.

Institute of Ocean Sciences, 1973. Oceanographic data report - Cambridge Bay, N.W.T., September 1971 to April 1972. Frozen Sea Research Group, Pacific Region, Sidney, B.C., Pac. Mar. Sc. Rep. 73-9. 367 pp.

Ives, J.D. and R.G. Barry, eds, 1974. Arctic and Alpine Environments. Methuen & Co. Ltd., London. 999 pp., 47 plates.

Jones, E.P. and A.R. Coote, 1980. Nutrient distributions in the Canadian Archipelago: Indicators of summer water mass and flow characteristics. Can. J. Fish. Aquat. Sci. 37: 589-599.

Kashino, R.K., 1979. Ocean current measurement program - Dolphin and Union Strait, N.W.T. Polar Gas Pipeline Survey. Submitted to Kenting Exploration Services Ltd. by Dobrocky Seatech Ltd., Sidney, B.C. Unpubl. man., 183 pp.

Kiilerich, A.B., 1939. A theoretical treatment of the hydrographic observational material, the Godthaab Expedition. Meddelelser om Gronland 78: 1-148.

Lake, R.A., 1978. An oceanographic study of Bridport Inlet, Melville Island, N.W.T., Part 1. Frozen Sea Research Group, Inst. of Ocean Sciences, Sidney, B.C. 12 pp.

Lake, R.A., 1979. An oceanographic study of Bridport Inlet, Melville Island, N.W.T. Parts 2 and 3, March - August, 1979. Frozen Sea Research Group, Inst. of Ocean Sciences, Sidney, B.C. Part 2: 59 pp., Part 3: 288 pp.

Langleben, M.P., 1982. Water drag coefficient of first-year ice. J. Geophys. Res. Vol. 87, No. C1: 573-578.

Lee, A.J. and P.G.W. Jones, 1968. The intercalibration of the gear and methods used during Norwestlant 1-3. International Commission for the Northwest Atlantic Fisheries, Dartmouth, N.S. Sp. Pub. No. 7, Part III, Vol. 1. pp. 1-28, prepared by Canadian Oceanographic Data Centre, Ottawa.

Lemon, D.D., 1980. CTD data from western Baffin Bay and Lancaster Sound, 1978 and 1979. Unpublished man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 52 pp. plus appendices.

Lemon, D.D., M.A. Wilson and L.E. Cuypers, 1981. Measurements of wind, ice and surface-layer drift in Viscount Melville Sound - summer 1980. Unpubl. Rep. by Arctic Sciences Ltd., Sidney, B.C. for Dome Petroleum Ltd., Calgary, Alberta. 152 pp. plus appendices.

Lemon, D.D. and D.B. Fissel, 1982. Seasonal variations in currents and water properties in northwestern Baffin Bay, 1978-1979. Arctic 35: 211-218.

Lewis, C.F.M., J.R. Horsman and D.I. Ross, 1974. Geological, geophysical and hydrographic studies in Lancaster Sound and Maxwell Bay, District of Franklin. Geol. Survey of Canada, Ottawa. Paper 74-1, Part A. 251 pp.

Lewis, E.L. and E.R. Walker, 1970. The water structure under a growing sea ice sheet. J. Geophys. Res. 75: 6836-6845.

Lewis,E.L. and R.G. Perkin, 1978. Salinity: its definition and calculation. J. Geophys. Res. 83: 466-478.

Lindsay, D.G., 1976. Sea-ice atlas of Arctic Canada. INFOCAN, Ottawa. Vol 8. 213 pp.

MacNeill, M.R., B.R. de Lange Boom and D. Ramsden, 1978. Radar tracking of ice in the Griffith Island area of Barrow Strait, N.W.T. Contractor Rep. Ser. 78-2 by Seakem Oceanography, Sidney, B.C. for the Inst. of Ocean Sciences, Sidney, B.C. 105 pp.

Markham, W.E., 1981. Ice atlas, Canadian Arctic waterways. Supply and Services Canada, Hull, P.Q. 198 pp., illustrations and maps.

Marko, J.R., 1981. The ice environment of western Baffin Bay and Lancaster Sound. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 195 pp. plus appendices.

Marko, J.R., J.R. Birch and M.A. Wilson, 1982. A study of long-term satellite-tracked iceberg drifts in Baffin Bay and Davis Strait. Arctic 35: 234-240.

Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force 80. Arctic Operation Summer 1948. Woods Hole Oceanographic Institution, Woods Hold, Mass., Ref. No. 49-4. 67 pp.

Milne, A.R., 1960. Shallow water under-ice acoustics in Barrow Strait. J. Acoust. Soc. Am. 32: 1007-1016.

Montgomery, M.R., 1952. Further notes on ice islands in the Canadian Arctic. Arctic 5: 183-187.

Morison, S.R. and R.B. Taylor, 1978. Physical characteristics and seasonal changes in an Arctic estuarine environment. In Current Res., Part B, Energy, Mines & Resources, Geol. Survey of Canada, Ottawa. Paper 78-1B: 101-106.

Muench, R.D., 1971. The physical oceanography of the northern Baffin Bay region. Arctic Inst. of N.A., Washington, D.C., Baffin Bay-North Water Project. Sc. rep. No. 1. 150 pp.

Palfrey, K.M. and G.G. Day, 1968. Oceanography of Baffin Bay and Nares Strait in the summer of 1966 and current measurements in Smith Sound, summer 1963. U.S.Coast Guard, Washington, D.C. (see NTIS in Appendix 3), Ocean. Rep. No. 16. 204 pp.

Parry, W.E., 1821. Journal of a voyage for the discovery of the Northwest Passage. 2nd ed. John Murray, London.

Parry, W.E., 1824. Journal of a second voyage for the discovery of a Northwest Passage. John Murray, London.

Parry, W.E. Journal of a voyage for the discovery of the Northwest Passage from the Atlantic to the Pacific. A 1968 reprint by Greenwood Press, N.Y. 132 pp.

Peck, G.S., 1977. Arctic oceanographic survey, 1977. Field Rep. Ser. No. 77-2. Ocean and Aquatic Sciences, Central Region, Burlington. 39 pp.

Peck, G.S., 1978. Arctic oceanographic data report, 1977. Viscount Melville Sound. Ocean and Aquatic Sciences, Central Region. Data Report Series No. 78-3. 150 pp., illustrations.

Peck, G.S., 1980. Arctic oceanographic data report, 1978. Vol. 2, Ocean and Aquatic Sciences, Central Region, Burlington. Data Report Series 80-1. 163 pp., illustrations.

Polar Gas Project, 1979. M'Clure Strait marine geophysical investigation - April 1979. By Polar Gas Project, Toronto, Ontario for Combined Pipeline System Study. 73 pp.

Prestwich, J., 1875. Tables of temperature of the sea at various depths below the surface taken between 1749 and 1868. Phil. Trans. Roy. Soc., London, 165B: 587-674.

Prinsenberg, S.J., 1978. Arctic oceanographic data report 1978, Vol. 1. Ocean and Aquatic Sciences, Central Region, Burlington. Data Report Series 78-4. 211 pp., illustrations.

Pullen, H.F., 1979. The Pullen Expedition in Search of Sir John Franklin. The Arctic History Press, Toronto, Canada. 230 pp., maps.

Riis-Carstensen, E., 1936. The Godthaab expedition 1928. The hydrographic work and material. Meddelelser om Gronland 78: 1-101.

Ross, Sir John, 1819. A Voyage of Discovery. John Murray, London.

Sadler, H.E., H.V. Serson and R.K. Chow, 1979. The oceanography of Fury and Hecla Strait. Def. Res. Est. Pacific, Victoria, B.C., Tech. Mem. 79-11. 61 pp. plus appendices.

Sekerak, A.D., R.A. Buchanan, W.B. Griffiths and M.G. Foy, 1976. Biological oceanographic studies in Lancaster Sound, 1976. Unpubl. rep. by LGL, Toronto, for Norlands Petroleum Ltd., Calgary. 243 pp.

Sekerak, A.D., D. Thompson, H. Bain and J. Acreman, 1976. Summer surveys of the marine ecology of Creswell Bay, Cornwallis Island, N.W.T. 1975. Unpubl. rep. by LGL , Toronto for the Polar Gas Project.

Serson, H.V., 1976. An oceanographic survey of Fury and Hecla Strait. Defence Research Establishment Ottawa, Tech. Note 76-14, May 1976. 45 pp.

Stephenson, F., 1977. An assessment of the permanent water level stations in the Canadian Arctic. Lighthouse 16: 21-25.

Sweers, H.E., 1970. OCEANS IV. A processing, archival and retrieving system for oceanographic station data. Dept. of Energy, Mines and Resources, Mar. Sc. Br., Ottawa, Man. Rep. No. 15. 137 pp.

Tan, F.C. and P.M. Strain, 1980. The distribution of sea-ice meltwater in the eastern Canadian Arctic. J. Geophys. Res. 85, C4: 1925-1932.

Taylor, R.B., 1975. Coastal investigations of northern Somerset Island and Barrow Strait, District of Franklin. Energy, Mines and Resources, Geol. Survey of Canada, Ottawa. Paper 75-1: 501-504.

Thompson, D., S. Woods and J. Acreman, 1975. Marine ecology survey in the central portion of the Canadian Arctic Islands, 1974. Marine Sciences Centre, McGill University report for Polar Gas Project, Toronto. 77 pp.

Thompson, D., W.E. Cross, H. Bain and L. Patterson, 1978. Aspects of the spring and summer marine environment of Brentford Bay, Boothia Peninsula, N.W.T. Unpubl. rep. by LGL, Toronto for the Polar Gas Project. 203 pp.

Tully, J.P., 1952. Oceanographic data of the western Canadian Arctic region, 1935-37. J. Fish. Res. Board Can. 8: 378-382.

U.S. Coast Guard, 1972. Oceanographic conditions in the northern Baffin Bay region, 24 July - 6 August 1970. U.S. Coast Guard, Washington, D.C. (see NTIS in Appendix 3), Ocean. Rep. No. 54. CG-373-54. August 1972.

U.S. Navy Hydrographic Office, 1954a. Oceanographic observations, Arctic waters - USS Edisto and USS Atka. Washington, D.C. (see NTIS in Appendix 3), Pub. 618-A. 315 pp.

U.S. Navy Hydrographic Office, 1954b. Oceanographic observations - USS Burton Island 1950-53. Washington, D.C. (see NTIS in Appendix 3), Pub. 618-C. 309 pp., 6 charts.

U.S. Navy Hydrographic Office, 1956. Oceanographic survey results, Beaufort Sea area - Summer 1954. USS Burton Island (AGB-1) and USCGC Northwind (WAGB-282). H.O. Pub. 15791. 104 pp.

U.S. Navy Hydrographic Office, 1959. Oceanographic observations, Arctic Waters. Task Force 5 and 6. Summer-Autumn 1957; USCGC Eastwind, USCGC Westwind, USCGC Spar, USS Atka, USS Eldorado. Washington, D.C. (see NTIS in Appendix 3), Tech. Rep. No. 59. November 1959. 145 pp., illustrations.

U.S. Navy Hydrographic Office, 1960. Oceanographic observations, Arctic Waters. Task Force 5 and 6. Summer-Autumn 1956; USS Resolute, USS Eldorado, USS Atka, USCGC Eastwind. Washington, D.C. (see NTIS in Appendix 3), Tech. Rep. No. 58. October 1960. 89 pp., illustrations.

U.S. Naval Oceanographic Office, 1959. Oceanographic data report, Arctic, 1959. Washington, D.C. (see NTIS in Appendix 3), Inf. Man. Rep. No. O-43-63. 245 pp., maps.

Verrall, R.I., J.H. Ganton and A.R. Milne, 1974. An ice drift measurement in western Parry Channel. Arctic 27(1): 47-52.

Walker, E.R. and K.D. Chapman, 1973. Salinity-conductivity formulae compared. Dept. of Environment, Mar. Sc. Directorate, Pacific Region, Victoria, B.C. Pac. Mar. Sc. Rep. 73-5. 52 pp.

Walker, E.R., 1977. Aspects of oceanography in the archipelago. Inst. of Ocean Sciences, Sidney, B.C. Note-3. 186 pp.

Winchester, J.W., 1954. A study of the movement of arctic sea-ice in the Canadian Arctic in relation to meteorological, geographical and oceanographic parameters. Bull. Am. Met. Soc. 35(9): 417-427.

8. DATA INVENTORY TABLE

Table 1 presents a summary listing of the data sets included in this inventory. The table lists all the data contained in the inventory sequentially by data set number. Water property, moored current meter, surface drift and water level data are fully catalogued. BT data, because of their limited usefulness in Arctic waters without accompanying salinity data, are not catalogued in detail. However, their existence is noted in Table 1, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. A large class of current meter data, consisting of over-the-side measurements made with fixed-depth or profiling current meters has been inventoried in Appendix 2. Attempts were made to include all such data covering a tidal cycle or more, but some profiles of short duration may not be included here.

Each column of the table contains the following information (symbols and abbreviations used in each column are explained as well):

Column 1 - Data Set I.D.

- contains the data set identifier number, which is of the form yy-nnnn, where yy is the last two digits of the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data sets exist only in other areas or disciplines. A data set which appears in 2 or more areas or disciplines will have the same number in every case.) Data sets may be subdivided by the addition of a letter at the end of the number. Subdivisions apply only within this report and are used to separate specific types of physical oceanographic data within a single cruise or study.

Column 2 - Collecting ship, agency

- contains the name of the ship (underlined) from which the data were collected. If no ship was used (e.g. aircraft surveys), the name of the collecting agency appears. A question mark indicates a probable ship/agency which could not be verified.

Column 3 - Dates of measurements

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. The year is given by the first two digits of the data set number in column 1, unless the measurement period spans the end of a year, in which case it is given explicitly. A question mark after a data set reflects a lack of confidence in the value, generally due to poor documentation.

Column 4 - Quantity measured

- lists the physical parameters measured in the data set. A quantity followed by a ? means that reference was made to measurement of this quantity but no supporting details could be found. Measurements identified as "Currents" are Eulerian, fixed current measurements; whereas "Current drift" refers to Lagrangian measurements. Current profiles are spot measurements at certain depths.

Column 5 - Instruments or methods used

- lists the instruments and methods used to make the measurements. The entries appear opposite the names (in column 3) of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and an assumption was made from standard practice at the time. A question mark alone means that the instrument used is unknown.

Column 6 - Estimate of data precision and accuracy

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, $\pm n_2$ where n_1 is the precision and n_2 the accuracy. Where investigator s estimates were not available, the following special symbols and entries have been used:

[$\pm n_1$,$\pm n_2$]: standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:

BT	[0.2C°,0.2C°]
Reversing thermometer	[0.02C°,0.03C°]
Salinity Hydrometer	[0.2^{o}/oo,0.2^{o}/oo]
Salinity Refractometer	[0.5^{o}/oo,0.5^{o}/oo]
Salinity Titration	[0.02^{o}/oo,0.04^{o}/oo]
Salinity Bench salinometer	[0.01^{o}/oo,0.02^{o}/oo]

$\pm n_1$ @: manufacturer's specifications for that instrument.

$\pm n_1$?: an estimate has been given which is questionable for reasons detailed in Appendix 1.

The column is blank where no information was available and no reasonable assumption could be made.

Column 7 - Data rating number

- carries the dating rating number assigned as explained in Section 5.

Column 8 - Area

- lists the sub-areas in which the majority of the measurements in the data set were taken. (The sub-areas are defined in Figure 2.)

Column 9 - Concurrent measurements

- lists known measurements in other disciplines taken as part of the data set. Other measurements may have been taken which were not discovered while cataloguing the physical oceanographic data.

Column 10 - Source or reference

- lists a source or reference for the data sets. References where available are to primary data reports and are given as author (year). Data sets held in the data banks at the Marine Environmental Data Centre, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified, respectively by the entries MEDS# and NODC# followed by the data bank's identity number. Data which have not yet been published (1982) or submitted to a data bank have the collecting agency listed as the source. Appendix 3 lists addresses and contacts for these sources.

TABLE 1: SUMMARY LISTING OF DATA SETS

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
08-0001	ARCTIC?	Nov.1,1908-Mar. 9,1909	Water level	?		2	Viscount Melville Sound		MEDS# WL-ID 5645
10-0001	ARCTIC?	Dec. 1-Apr. 30, 1911	Water level	?		2	Admiralty Inlet		MEDS# W1-ID 5865
15-0001	CANADIAN ARCTIC EXPEDITION	June 6-23 Oct.8-Nov.8 Dec. 4-12	Water level	Temporary shore-mounted gauge	±0.6 cm for Armstrong Pt record	1	Prince of Wales Strait, Dolphin and Union Strait	Biological, zooplankton	Dawson (1920)
			Currents?	?					
15-0002	CANADIAN ARCTIC EXPEDITION?	Dec. 1,1915-June 30,1916	Water level	?		2	Dolphin and Union Strait		MEDS# WL-ID 6310
28-0001	GODTHAAB EXPEDITION	Aug. 20	Temperature	Reversing thermometers	±.016C°,[±.03C°]	3	Lancaster Sound	Oxygen, hydrogen ion	Riis-Carstensen (1931) NODC# 50012
			Salinity	Knudsen titration	[0.02°/oo,0.04°/oo]				
35-0001	ST. ROCHE (PACIFIC BIOLOGICAL STATION)	Aug. 31, Sept.11-12	Temperature	Reversing thermometers	[0.02C°,0.03C°]	2	Coronation Gulf	Biological-cumacea, deca poda, polycheata, hydroids	Tully (1952)
			Salinity	Hydrometer/specific gravity	[0.2°/oo,0.2°/oo]				
37-0001	ST. ROCHE (PACIFIC BIOLOGICAL STATION)	July 11-29 Aug. 2-12	Temperature	Reversing thermometers	[0.02C°,0.03C°]	2	Coronation Gulf	Biological-cumacea, deca poda, polycheata, hydroids	Tully (1952)
			Salinity	Hydrometer/specific gravity	[0.2°/oo,0.2°/oo]				
46-0001	USCGC NORTHWIND	July 24-Aug. 18	Temperature	Reversing thermometers BT	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Lancaster Sound	Bottom sediment, plankton	Metcalfe (1949)
			Salinity	?					
48-0001	USCGC EASTWIND	Sept. 4-10	Temperature	Reversing thermometers BT	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Barrow Strait, Gulf of Boothia		NODC# 31EW50376 Metcalfe (1949)
			Salinity	?					
48-0002	U.S. COAST AND GEOD.	?	Water level	?		2	Viscount Melville Sound		U.S. Coast and Geod. Survey

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
49-0001	CANADIAN HYDROGRAPHIC SERVICE?	July 1,1949-May 31,1952	Water level	?		2	Barrow Strait		MEDS# WL-ID 5560
50-0002	USS EDISTO	Aug. 17	Temperature Salinity	Reversing thermometers BT ?	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Barrow Strait	Oxygen, water transparency	NODC# 31ED50375 USNHO (1954a)
51-0003	?Unknown	Aug. 5-18	Temperature	BT	[0.2C°,0.2C°]	2	Lancaster Sound		MEDS# 180057040
52-0003	USS EDISTO	Aug. 6-15	Temperature Salinity	Reversing thermometers BT ?	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Barrow Strait	Oxygen,water transparency, bottom samples	NODC# 31ED50368 MEDS# 180052040 USNHO (1954a)
53-0001	USS BURTON ISLAND	Aug. 14-Sept. 1	Temperature Salinity Currents	Reversing thermometers BT Knudson titration Bi-plane	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.02°/oo,0.04°/oo]	3	Prince of Wales Strait	Oxygen, nutrients, plankton, bottom sediment	NODC# 31BI50430 USNHO Pub. 618-C (1954b)
53-0002	?Unknown	Aug. 16-18	Temperature	?		2	Lancaster Sound		MEDS# 180053040
53-0003	CANADIAN HYDROGRAPIC SERVICE	July 20-Aug. 27	Water level	?		2	M'Clure Strait		MEDS# WL-ID 5740, 5750 & 5760
54-0001	HMCS LABRADOR	July 30-Sept. 5	Temperature Salinity	Reversing thermometers BT Knudsen titration	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.02°/oo,0.04°/oo]	3	Viscount Melville Sound, Prince of Wales Strait	Plankton, bottom samples, oxygen, phosphates	MEDS# 180354189, 180054031, 180054040 Bailey (1955)
54-0002	USS BURTON ISLAND	Aug. 11 Sept. 6	Temperature Salinity	Reversing thermometers BT Knudsen titration	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.02°/oo,0.04°/oo]	3	Viscount Melville Sound, Prince of Wales Strait	Oxygen, phosphate, bottom sediments, transparency	NODC# 3150456 USNHO (1956)
54-0003	USCGC NORTHWIND	Aug. 14 Sept. 6	Temperature Salinity	Reversing thermometers Knudsen titration	[0.02C°,0.03C°] [0.02°/oo,0.04°/oo]	3	Viscount Melville Sound, Prince of Wales Strait	Oxygen, silicon, bottom sediments	NODC# 3150457 USNHO (1956)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
54-0004	MCGILL UNIVERSITY, MONTREAL	May 28,1954-Apr.26,1955	Temperature Salinity	Reversing thermometers Titration, Hydrometer	?,0.05C° ?,+0.1°/oo ?,±0.2°/oo	3	Coronation Gulf, Admiralty Inlet	Marine animal collection	MEDS# 181754451 Ellis (1956)
54-0005	CANADIAN HYDROGRAPHIC SERVICE	June 1-Sept. 30	Water level	?		2	Barrow Strait		MEDS# WL-ID 5560
55-0003	CANADIAN HYDROGRAPHIC SERVICE	Aug. 8-13	Water level	?		2	Rae Strait		MEDS# WL-ID 6160
56-0001	USS REQUISITE U.S.NAVY HYDROGRAPHIC OFFICE	Aug. 1-22	Temperature Salinity Current profiles	Reversing thermometers Knudsen titration? ?	[0.02C°,0.03C°] [0.02°/oo,0.04°/oo]	3	Coronation Gulf	Bottom sediments	NODC# 3150548 USNHO (1960)
56-0002	WOODS HOLE OCEANOGRAPHIC INSTITUTE	?	Temperature Salinity	Thermometer Hydrometer	? [0.2°/oo,0.2°/oo]	1	Barrow Strait	Plankton	Appolonio (1957)
56-0003	HMCS LABRADOR	Sept. 16-Oct. 1	Temperature Salinity	Reversing thermometer Knudsen titration	[0.02C°,0.03C°] [0.02°/oo,0.04°/oo]	3	Gulf of Boothia	Oxygen, phosphate, bottom samples	MEDS# 180356219, 180056031, 1800056032, 180056040 Collin (1958)
56-0004	CANADIAN HYDROGRAPHIC SERVICE	Sept. 2-30	Water level	?		2	Dolphin and Union Strait		MEDS# WL-ID 6310
57-0001	USCGC SPAR U.S.NAVY HYDROGRAPHIC OFFICE	Aug. 2-Sept. 9	Temperature Salinity Current profiles	Reversing thermometers BT Knudsen titration? ?	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.02°/oo,0.04°/oo]	3	Queen Maud Gulf	Bottom sediments	NODC# 3150570 USNHO (1959)
57-0003	LABRADOR (MCGILL UNIVERSITY, MONTREAL)	Aug. 20-Sept. 24	Temperature Salinity	Reversing thermometers Knudsen titration	[0.02C°,0.03C°] [0.02°/oo,0.04°/oo]	3	Lancaster Sound	Oxygen, phosphates	MEDS# 180357244,180057031, 180057032, 180057040 Collin (1962)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
57-0004	CANADIAN HYDROGRAPHIC SERVICE	Aug. - present, permanent station	Water level	See Appendix 1	?	2	Barrow Strait		Stephenson (1977) Dohler (1958)
57-0005	?	Aug. 23-Sept. 6	Water level	?		2	Peel Sound, Prince Regent Inlet		Institute of Ocean Sciences station #6100, 5930
59-0002	USS STATEN ISLAND U.S. NAVY OCEANOGRAPHIC OFFICE	Aug. 16-26	Temperature	Reversing thermometers BT	[0.02C°],0.03C° [0.2C°,0.2C°]	3	Dolphin and Union Strait	Bottom sediments	NODC# 3150636 USNHO (1959)
			Salinity	Salinometer	[0.01°/oo,0.02°/oo]				
59-0003	PACIFIC NAVAL LABORATORY	May 7	Temperature Salinity	? ?		2	Barrow Strait	Acoustic research	Milne (1960)
59-0004	CANADIAN HYDROGRAPHIC SERVICE	Aug. 1,1959-Sept. 30 1960	Water level	?		2	Rae Strait		MEDS# WL-ID 6150
60-0004	M.V. THETA (NATIONAL RESEARCH COUNCIL)	Aug. 11 Sept. 24	Temperature	Reversing thermometers BT	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Lancaster Sound	Bottom samples	MEDS# 180760329, 180060000 CODC (1964)
			Salinity	Salinometer	[0.01°/oo,0.02°/oo]				
60-0005	CCGS LABRADOR	Aug. 29-Sept. 16	Temperature	Reversing thermometers BT	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Gulf of Boothia	Plankton	MEDS# 181060340, 180060001 CODC (1964)
			Salinity	Knudsen titration	[0.02°/oo,0.04°/oo]				
60-0006	CANADIAN HYDROGRAPHIC SERVICE	Aug. 1-Sept. 30, 1961	Water level	?		2	Fury and Hecla Strait, Lancaster Sound		MEDS# WL-ID 5330, 5430 & 5500
60-0008	CSS BAFFIN	Sept. 11-12	Current profiles Water levels	Ekman meter ?	?	3	Fury and Hecla Strait		Barber (1965)
61-0003	SIR JOHN A. MACDONALD, (NATIONAL RESEARCH COUNCIL)	Sept. 5-13	Temperature	Reversing thermometers BT	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Gulf of Boothia		MEDS# 180761344, 180061003 CODC(1966)
			Salinity	?					

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
61-0004	LABRADOR	Aug. 28-Sept 14	Temperature Salinity	Reversing thermometers ?	[0.02C°,0.03C°]	3	Lancaster Sound	Plankton tows, dissolved oxygen	MEDS# 181061341, 180061001 CODC (1966)
61-0005	POLAR CONTINENTAL SHELF PROJECT	Apr. 16-19	Temperature Salinity	? ?		2	M'Clure Strait		MEDS# 181161339
61-0006	CANADIAN HYDROGRAPHIC SERVICE	July, 1961-present, (permanent station)	Water level	Ott, Stevens A71	?	2	Dease Strait		Stephenson (1977)
61-0007	CANADIAN HYDROGRAPHIC SERVICE	Jan. 1-June 30	Water level	?		2	Dease Strait, Barrow Strait, Admiralty Inlet		MEDS# WL-ID 5490, 5500, 5860 & 6240
61-0008	?Unknown	Aug. 22	Temperature	?		2	Lancaster Sound		MEDS# 18006100
62-0005A	LAND-BASED; ARCTIC UNIT, MONTREAL	June 28-Aug. 14	Temperature Salinity	Reversing thermometers ?	[0.02C°,0.03C°]	3	Barrow Strait	Plankton, fish, mammals, oxygen and nutrients	MEDS# 180462363 CODC (1963)
62-0005B	LAND-BASED; ARCTIC UNIT, MONTREAL	July 25-Aug. 6	Temperature Salinity	Reversing thermometers ?	[0.02C°,0.03C°]	3	M'Clure Strait	Plankton, fish, mammals, oxygen nutrients	MEDS# 180462365 CODC (1963)
62-0005C	LAND-BASED; ARCTIC UNIT, MONTREAL	June 23-Aug. 13	Temperature Salinity	Reversing thermometers ?	[0.02C°,0.03C°]	3	Prince Regent Inlet	Plankton, fish, mammals, oxygen nutrients	MEDS# 180462366 CODC (1963)
62-0005D	LAND-BASED; ARCTIC UNIT, MONTREAL	Aug. 9-Sept. 7	Temperature Salinity	Reversing thermometers ?	[0.02C°,0.03C°]	3	Dease Strait	Plankton, fish, mammals, oxygen, nutrients	MEDS# 180462367 CODC (1963)
62-0006	SIR JOHN A. MACDONALD	Aug. 5-Sept. 10	Temperature Salinity	Reversing thermometers BT Salinometer	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.01°/oo,0.02°/oo]	3	Barrow Strait	Vertical plankton hauls, oxygen	MEDS# 181062359, 180062086 CODC (1966a)
62-0007	LABRADOR	Oct. 2-4	Temperature Salinity	Reversing thermometers BT ?	[0.02C°,0.03C°] [0.2C°,0.2C°]	3	Lancaster Sound		MEDS# 181062362 CODC (1967)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
62-0008	CANADIAN HYDROGRAPHIC SERVICE	Aug. 1 Sept. 30	Water level	?		2	Barrow Strait		MEDS# WL-ID 5600
63-0004	SIR JOHN A. MACDONALD	Sept. 4-6	Temperature Salinity	? ?		2	Prince Regent Inlet		MEDS# 180263004
64-0001	SALVELINUS (ARCTIC (BIOLOGICAL STATION)	Aug. 21-Sept. 8	Temperature Salinity	? ?		2	Coronation Gulf		MEDS# 180464001
64-0004	SIR JOHN A. MACDONALD (ARCTIC BIOLOGICAL STATION)	Aug. 26-Sept. 5	Temperature Salinity	? ?		2	Viscount Melville Sound		MEDS# 180264008
65-0002	SALVELINUS (ARCTIC BIOLGOICAL STATION)	July 29-Sept. 5	Temperature Salinity	? ?		2	Coronation Gulf		MEDS# 180465001
65-0003	ICE PACK, NATIONAL RESEARCH COUNCIL	May 18-July	Temperature Salinity	? ?		2	Peel Sound		MEDS# 180765002
65-0004	FROZEN SEA RESEARCH GROUP, BEDFORD INST. OF OCEAN.	Bimonthly	Temperature Salinity	Thermistor Salinometer	±0.01C°,±0.01C° ±0.02°/oo,0.1°/oo	3	Cambridge Bay		Lewis and Walker (1970)
66-0003	?Unknown	May 5-June 24	Temperature	?		2	Prince Regent Inlet		MEDS# 180766002
66-0004	USS EDISTO	Aug. 7-17	Temperature Salinity	Reversing thermometer Salinometer	[0.02C°,0.03C°] ±.005°/oo,±0.02°/oo?	3	Lancaster Sound		NODC# 31ED50807 Palfrey and Day (1968)
66-0005	SALVELINUS (ARCTIC BIOLOGICAL STATION)	Aug. 2-24	Temperature Salinity	? ?		2	Dease Strait		MEDS# 180466001
66-0006	ICEPACK PROJECT	Apr. 25-May 5	Temperature Salinity	? ?		2	M'Clure Strait		MEDS# 180266005

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
67-0001A	ARCTIC BIOLOGICAL STATION	July 2-29	Temperature Salinity	? ?		2	Dease Strait		MEDS# 180467001
67-0001B	SALVELINUS (ARCTIC BIOLOGICAL STATION)	Aug. 17-Sept. 17	Temperature Salinity	? ?		2	Dease Strait		MEDS# 180467003
67-0002	LABRADOR	Aug. 17-Sept. 9	Temperature Salinity	Reversing thermometers BT CTD/Salinometer	[0.02C°,0.03C°] [0.2C°,0.2C°] See Appendix 1	3	Barrow Strait		MEDS# 180267013 CODC (1968)
68-0001	LABRADOR	Aug. 24-Sept. 10	Temperature Salinity	Reversing thermometers BT Salinometer	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.01°/oo,0.02°/oo]	3	Viscount Melville Sound	Dissolved oxygen, biological samples	MEDS# 180268013 Herlinveaux (1970)
68-0002	FROZEN SEA RESEARCH GROUP, BEDFORD INST. OF OCEAN.	Feb. 18	Temperature Salinity	Thermister Salinometer	?,±0.01C° [0.01°/oo,0.02°/oo]	3	Cambridge Bay		Lewis and Walker (1970)
69-0003	CANADIAN HYDROGRAPHIC SERVICE	Aug.-present, permanent station	Water level	Ott,Stevens A71	?	2	Rae Strait		Stephenson (1977)
70-0002	CSS HUDSON	Sept. 24-30	Temperature Salinity	Reversing thermometers Salinometer	[0.02C°,0.03C°] [0.01°/oo,0.02°/oo]	3	Viscount Melville Sound		MEDS# 181069050
70-0006	USCGC WESTWIND (UNIVERSITY OF WASHINGTON)	July 24-Aug. 6	Temperature Salinity	Bissett-Berman Model 9060STD	±0.05C°,±0.05C° ±0.02°/oo,±0.05°/oo	3	Lancaster Sound		NODC# 31WE51680 USCG (1972)
70-0007	CANADIAN HYDROGRAPHIC SERVICE	Aug. 31-Sept. 15	Water level	?		2	Prince of Wales Strait		MEDS WL
71-0006	FROZEN SEA RESEARCH GROUP, BEDFORD INST. OF OCEAN.	Sept.8,1971-Apr.15,1972	Temperature Salinity	Guildline Model 8101A CTD	?,±0.005 to 0.5C° ?,±0.05°/oo	3	Cambridge Bay		Institute of Ocean Sciences (1973)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
71-0007	**CANADIAN HYDROGRAPHIC SERVICE**	Sept.1971-present (permanent station)	Water level	Ott,Stevens A71	?	2	Coronation Gulf		Stephenson (1977)
71-0008	**CANADIAN HYDROGRAPHIC SERVICE**	Aug. 1 Sept. 30	Water level	?		2	Viscount Melville Sound		MEDS# WL-ID 5600, 5615
72-0011	**LOUIS S. ST. LAURENT**	Sept. 24-29	Temperature Salinity Current profiles	Reversing thermometer BT Salinometer ?	[0.02C°,0.03C°] [0.2C°,0.2C°] [0.01°/oo,0.02°/oo]	3	Barrow Strait	Dissolved oxygen, turbidity, bottom grab samples, plankton, nutrients	Herlinveaux and Wilson (1974)
73-0005	**LOUIS S. ST. LAURENT**	Aug. 6	Temperature Salinity	? ?		2	Lancaster Sound	Silicon, phosphorous, nitrate,nitrite	MEDS# 32SL83650 Codispoti and Owens (1975)
73-0006	**ICE BASE, INSTITUTE OF OCEAN SCIENCES**	Apr. 18-23	Temperature Salinity Currents Current profiles	Guildline Model 8101 CTD Aanderaa RCM4 Hydroproducts	?,±0.02C° ?,±0.04°/oo 2.2 cm/s threshold ±1.5cm/s, 2.6cm/s threshold	3	Barrow Strait	Nutrients	Herlinveaux et al. (1978)
73-0007	**CANADIAN HYDROGRAPHIC SERVICE**	Aug. 1-Sept. 30	Water level	?		2	Viscount Melville Sound Barrow Strait		MEDS# WL-ID 5530, 6833
73-0008	**SIR WILLIAM ALEXANDER**	Aug. 27-Sept. 5	Temperature Salinity Current profiles	Guildline 8101 Hydroproducts	accuracy ±0.02C°,±0.04°/oo@ ±1.5 cm/s @,2.6 cm/s threshold	3	Barrow Strait	Nutrients, dissolved oxygen	Herlinveaux, Fissel and Wilson (in preparation)
74-0012	**GEOLOGICAL SURVEY OF CANADA**	June-Sept.	Temperature Salinity Currents	Yellow Spring Instruments CTD Drogues	? ? ?	2	Barrow Strait		Taylor (1975)
74-0013A	**CSS HUDSON (BEDFORD INSTITUTE OF OCEANOGRAPHY)**	Aug. 16-Sept. 12	Currents	Hydrowerstatten	?	2	Lancaster Sound		Bedford Institute of Oceanography (1974)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
74-0013B	CSS HUDSON (BEDFORD INSTITUTE OF OCEANOGRAPHY)	Aug. 27-30	Temperature Salinity	STD	? ?	2	Barrow Strait		Bedford Institute of Oceanography (1974)
74-0014	MCGILL UNIVERSITY, POLAR GAS PROJECT	May-Aug.	Temperature Salinity	? Refractometer	 ±0.25^{o}/oo,±0.5^{o}/oo	1	Barrow Strait	Nutrients, plankton, benthos	Thompson et al. (1975)
74-0015	B.C. RESEARCH FOR STRATHCONA MINERAL SERVICES	Aug.	Temperature Salinity Currents Water level	? ? ? ?		2	Strathcona Sound	Dissolved oxygen, pH, metal concentration	B.C. Research (1975)
74-0017	CANADIAN HYDROGRAPHIC SERVICE	June-Nov.	Water level	?		2	Peel Sound, Prince Regent Inlet		MEDS WL-ID 5930, 6100
75-0013	LGL LTD. FOR POLAR GAS PROJECT	Aug. 2-25	Temperature Salinity	Reversing thermometers Refractometer	[0.02C°],±0.05C° [0.5^{o}/oo],0.5^{o}/oo	3	Creswell Bay, Resolute	Nutrients, plankton, chlorophyll	Sekerak et al. (1976)
75-0014	DEFENCE RESEARCH ESTABLISHMENT OTTAWA	Apr. 26-May 16	Currents Temperature Water level	? ? ?		2	Fury and Hecla Strait		MEDS# 182775002 Serson (1976)
75-0015	CANADIAN HYDROGRAPHIC SERVICE	July 1-31	Water level	?		2	Admiralty Inlet		MEDS# WL-ID 5860
76-0007	DEFENCE RESEARCH ESTABLISHMENT PACIFIC	Apr. 20-May 27	Temperature Salinity Currents Water level Temperature	Guildline Mark II CTD Marsh McBirney Braincon OTT Gauges Braincon Thermograph	?,±0.01C° ? ±2cm/s ±4-15 cm/s,±10° ? ±0.1C°	3	Fury and Hecla Strait		Sadler et al. (1979)
76-0008	M.V. THETA LGL LTD. FOR NORLANDS PETROLEUM	July 22-Sept. 13	Temperature Salinity	BT Refractometer	[0.2C°,0.2C°] ±0.5^{o}/oo,±0.5^{o}/oo	3 1	Lancaster Sound	Hydrocarbons, plankton, plant pigments, dissolved oxygen	Sekerak et al. (1976)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
76-0009	GEOLOGICAL SURVEY OF CANADA	July 3- Sept. 8	Temperature Salinity Water level	YSI Probe ?	? ?	2	Barrow Strait	Suspended sediment	Morison and Taylor (1978)
76-0010	LGL LTD FOR POLAR GAS PROJECT	July 5	Temperature Salinity	Reversing thermometers Refractometer	[0.02C°], ±0.05C° [0.5°/oo], ±0.5°/oo	3	Barrow Strait	Nutrients, chlorophyll, plankton	Bain et al. (1977)
76-0011	CSS HUDSON (BEDFORD INSTITUTE OF OCEANOGRAPHY)	Aug. 16-19	Temperature Salinity	CTD, bottles	? ?	2	Lancaster Sound	Chemical, geophysical, ornithology	Bedford Institute of Oceanography (1976)
76-0013	CANADIAN HYDROGRAPHIC SERVICE	July 30- Sept. 9	Water level	?		2	Dolphin and Union Strait		MEDS# WL-ID 6315
77-0011	MARINE SCIENCES CENTRE, MCGILL UNIV., MONTREAL	May 6-29	Temperature Salinity Currents	Bissett-Berman CTD Interocean Ultrasonic	? ?	2	Barrow Strait		Dr. Pounder, McGill University, Montreal
77-0012	OCEAN AND AQUATIC SCIENCES, CENTRAL REGION	Mar. 9- May 11	Temperature Salinity Currents Water level	Guildline Mark IV CTD Geodyne Aanderaa	[0.002C°], ±0.01C° [0.005°/oo], ±0.02°/oo ? ?	3	Viscount Melville Sound		Peck (1977, 1978)
77-0013	CCGS LABRADOR ARCTIC SCIENCES LTD. FOR INST. OF OCEAN SCIENCES	July 28- Oct. 1	Currents	Aanderaa RCM 4	±10° ±1cm/s or 2% of speed	3	Lancaster Sound		Fissel and Wilton (1978)
77-0014	CSS HUDSON (BEDFORD INSTITUTE OF OCEANOGRAPHY)	Sept. 8-11	Temperature Salinity	CTD	[0.005C°, 0.01C°] [0.005°/oo, 0.02°/oo]	2	Lancaster Sound	Oxygen, nutrients, chlorophyll, hydrocarbons	Bedford Institute of Oceanography (1977)
77-0015	LGL LTD. FOR POLAR GAS PROJECT	May- Sept.	Temperature Salinity	Reversing thermometer & YSI probe	accuracy ±0.5C° ±1.°/oo	3	Prince Regent Inlet	Plankton, nitrates, phosphates, silicates, chlorophyll	Thompson et al. (1978)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
77-0016	LGL LTD. FOR PETRO-CANADA	June 4-5, Aug. 2-31	Temperature Salinity	Reversing thermometer YSI probe Refractometer Salinometer	[0.02C°],±0.05C° ?,±1°/oo [0.5°/oo],±0.5°/oo [0.01°/oo,±0.02°/oo]	3	Bridport Inlet	Dissolved oxygen, chlorophyll, nutrients, plankton	Buchanan et al. (1977)
77-0017	BEDFORD INSTITUTE OF OCEANOGRAPHY	Aug. 22-Sept. 3	Currents	Aanderaa	?	2	Coronation Gulf		Bedford Institute of Oceanography, Hydrography Dept.
77-0018	LABRADOR HELICOPTER, (ARCTIC SCIENCES LTD. FOR INSTITUTE OF OCEAN SCIENCES)	July 28-Oct. 23	Surface drift	Polar Research Lab Drifters	±5 km accuracy	3	Barrow Strait, Lancaster Sound, Reel Sound, Prince Regent Inlet		Fissel and Marko (1978)
77-0020	INSTITUTE OF OCEAN SCIENCES?		Water level	?		2	Dolphin and Union Strait		Institute of Ocean Sciences (Station # 6300) See Appendix 1
77-0021	CANADIAN HYDROGRAPHIC SERVICE	July 27-Sept. 10	Water level	?		2	Dolphin and Union Strait		MEDS# WL-ID 6285, 6305, 6311 & 6315
78-0003	PHOENIX VENTURES LTD. FOR PETRO-CANADA	Feb. 15-June 6	Temperature Salinity Currents Water level	Guildline Model 8705 Aanderaa RCM 4 Aanderaa	? ? ±5° ±3 cm	1	Bridport Inlet		Greisman (1978)
78-0004	MARINE SCIENCES CENTER, MCGILL UNIV., MONTREAL	Apr. 21-May 28	Temperature Salinity Currents	CTD ?		2	Barrow Strait		Dr. Pounder, McGill University, Montreal
78-0005A	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	July 28-Sept. 23	Temperature Salinity	Guildine Model 8706 CTD	±0.005C° @ ±.005°/oo,±0.02°/oo	3	Lancaster Sound	Iceberg tracking	Lemon (1980)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
78-0005B	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	Sept. 19-20	Currents	Aanderaa RCM 4	±1 cm or ±2% of speed, @ ±10-20 degrees	3	Lancaster Sound		Fissel and Wilton (1980)
78-0005C	ARCTIC SCIENCES LTD. FOR PETRO-CANADA	Aug.4-Sept.23	Current drift	Drogued drifters	±2 km	3	Lancaster Sound		Fissel (1980a)
78-0005D	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	July 28-Sept. 20	Current profile	Endeco 110	±30° ±12 cm/s accuracy	3	Lancaster Sound		Fissel and Birch (1980)
78-0005E	ARCTIC SCIENCES LTD. FOR PETRO-CANADA	Aug. 22-May 12	Water level	AMS TG-12A	±1 cm	3	Lancaster Sound		Birch (1980b)
78-0006	FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES	Aug.21,1978 Mar.9,1979	Temperature Salinity Water level	Aanderaa RCM 4 Aanderaa TG 4	±0.005C°,±0.01C° ±0.01 mmho/cm	3	Bridport Inlet	Dissolved oxygen, weather, ice motion	Lake (1978)
78-0007	OCEAN AND AQUATIC SCIENCES, CENTRAL REGION	Mar. 10-Apr. 10	Temperature Salinity Currents Water level	Guildline Mark IV CTD Aanderaa RCM 4	±0.005C°,0.01C° ?,±0.02°/oo ? ?	3	Barrow Strait		Prinsenberg(1978) Peck (1980)
79-0011A	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA	July 17-Sept. 23	Temperature Salinity	Guildline Model 8706 CTD	±0.05C° ±0.022 to ±0.04°/oo accuracy	3	Lancaster Sound	Iceberg tracking, silica	Lemon (1980)
79-0011B	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	July 28-Sept. 22	Currents	Aanderaa RCM 4	±20° ±2% speed	3	Lancaster Sound		Fissel and Wilton (1980)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
79-0011C	M.C. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	Aug.14-Nov. 25	Current drift	Hermes drifters, ARGOS	±1.2 km	3	Lancaster Sound		Fissel (1980a)
79-0011D	M.V. THERON (ARCTIC SCIENCES LTD. FOR PETRO-CANADA)	Sept.2-10	Current profiles	Endeco 110	±30° ±12 cm/s accuracy	4	Lancaster Sound		Fissel and Birch (1980)
79-0012	DOBROCKY SEATECH FOR KENTING EXPLORATION SERVICES FOR POLAR GAS PIPELINE SURVEY	Aug. 28-Sept. 24	Currents	Aanderaa RCM 4	±1 cm/s ±20° ? accuracy	3	Dolphin and Union Strait		Kashino (1979)
79-0013	POLAR GAS PROJECT FOR COMBINING PIPELINE SYSTEM STUDY	Feb. 25-Apr. 18	Currents Water level	Aanderaa RCM 4 ?	?	1	M'Clure Strait	Bottom sediments, bottom profiles	Polar Gas Project (1979)
79-0014	FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES	Mar.12-July 30	Temperature Salinity Water level Currents	Guildline Model 8101A CTD Aanderaa Aanderaa RCM 4	±0.002C°,0.01C° ±0.005°/oo,[±0.02°/oo] ±27 mm ±7°,0.15 cm/s resolution	3	Bridport Inlet	Dissolved oxygen	Lake (1979)
79-0015	ARCTIC SCIENCES LTD. FOR PETRO-CANADA	July 8-Aug. 8	Temperature Salinity Surface drift	AMS CTD-12 Hula hoops	?,±0.02C° 0.03°/oo,±0.2°/oo ±3 m	3	Lancaster Sound		Birch (1980a)
79-0016	CANADIAN HYDROGRAPHIC SERVICE	Apr. 8-Nov. 8	Water level	?			Peel Sound Rae Strait		MEDS WL-ID
80-0007	CSS HUDSON (BEDFORD INSTITUTE OF OCEANOGRAPHY)	Aug. 5-20	Temperature Salinity Current profiles	Guildline 8770 CTD ?	[0.005C°],±0.02C° [0.005°/oo],±0.02°/oo	3	Lancaster Sound	Nutrients, plankton, chlorophyll	Bedford Institute of Oceanography (1980)

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
80-0008	ARCTIC SCIENCES LTD. FOR PETRO-CANADA	Aug.9-Oct.5	Surface drift	Hermes drifters/ Argos satellite	±1.2 km	4	Lancaster Sound		Fissel and Birch (1981)
80-0009	FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES	Apr. 5-24	Temperature Salinity Currents Water level	Guildline CTD Aanderaa RCM 4 Aanderaa WLR 5	±0.005C°.±0.02C° ?,±0.02°/oo ±0.15,1.5 cm/sec ±0.27,2.7 mb	3	Bridport Inlet	Dissolved oxygen	R.A. Lake, Frozen Sea Research Group, Institute of Ocean Sciences
80-0010	ARCTIC SCIENCES LTD. FOR DOME PETROLEUM	Aug. 26-27 Sept. 6	Ice and surface drift	Polar Research Lab/Argos satellite	±1.2 km	4	Viscount Melville Sound		Lemon et al. (1981)
80-0011	CANADIAN HYDROGRAPHIC SERVICE	Mar. 9-May 11	Water level	?		2	Viscount Melville Sound		Canadian Hydrographic Services, Bayfield Laboratory
81-0007	OCEAN AND AQUATIC SCIENCES, CENTRAL REGION	Mar., 1981-Apr. 1982	Temperature Salinity Currents Current profiles Water level	Guildline MK IV CTD Aanderaa RCM 4 CCIW developed ?	?,±0.01C°? ±0.005°/oo?,0.02°/oo ? ?	3	Barrow Strait	Plankton, nutrients, net hauls, ice bottom scrapings	Brooks (1981)
81-0008	CANADIAN HYDROGRAPHIC SERVICE	Mar. 8-Apr. 2	Water level	?		2	Barrow Strait		Canadian Hydrographic Services, Bayfield Laboratory
82-0002	OCEAN AND AQUATIC SCIENCES, CENTRAL REGION	Mar.-Apr.	Temperature Salinity Pressure	Guildline MK IV CTD	[0.005C°,0.02C°] [0.005°/oo,0.02°/oo]	2	Barrow Strait	Nutrients, net hauls, plankton	CCIW
82-0003	ARCTIC SCIENCES LTD. FOR INSTITUTE OCEAN SCIENCES	Mar.-Apr.	Temperature Salinity	Guildline MK IV CTD		2	Channels of the Northwest Passage		D. Fissel, Arctice Sciences Ltd.
82-0004	FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES	Mar.-June	Temperature Salinity Currents Water level	Guildine MK IV CTD Aanderaa RCM 4 Aanderaa WLR5 AMS TG-12A	±0.005C° ±0.02°/oo ±0.05,0.5 cm/sec ±0.27,2.7 mb ±0.024,0.1 mb	2	Prince of Wales Strait, Viscount Melville Sound, M'Clure Strait		

TABLE 1: SUMMARY LISTING OF DATA SETS (CONT'D)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown or assumed	Estimate of data precision and accuracy ?=Unknown	Data rating number	Area	Concurrent measurements	Source or reference
82-0005	MCGILL UNIV.	Mar.-Apr.	Currents	?		2	Barrow Strait		McGill University,Montreal
82-0006	CANADIAN HYDROGRAPNIC SERVICE	April	Currents Water level	Aanderaa RCM 4 AMS TG-12A	±6, 60 mb	2	Jesse Harbour, Prince of Wales Strait		Canadian Hydrographic Service, Institute of Ocean Sciences

9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current, water level, and surface drift measurements. Each year may have an overall map and in addition up to four sub-area maps, all in Lambert Conformal Conic projection (Figure 4). The overall map is a plot (1:7,000,000 scale) of all temperature/salinity data for that year. Water level data are also on this map if no current meter data existed in that year. If significant quantities of data exist, up to four more sub-area maps at 1:4,000,000 scale may be shown. If current meter data were collected in that year, then the first map(s) will show only temperature and salinity data, and a second 1:7,000,000 scale map will show the current meter data, as well as any water level or drifter data. The areas of Lagrangian drifter data are indicated by hatching. The legend indicates the following data types:

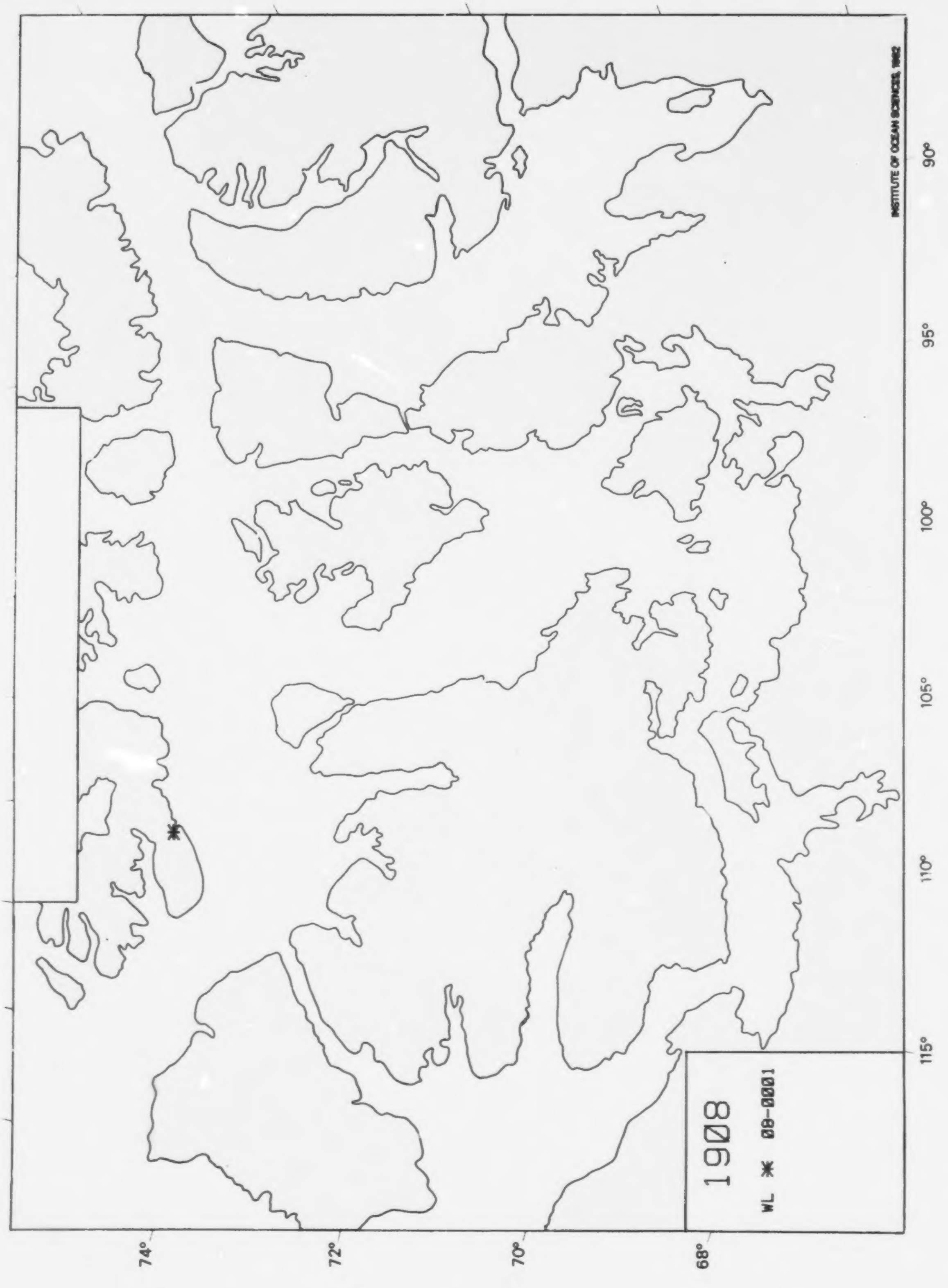
CM - current meter data
DRF - drifter data
TS - temperature-salinity data
WL - water level data

Vessel names/agencies in the legends are abbreviations. Cruise station symbols may be different on two different maps.

The "O" symbol indicates sites of permanent water level recording stations. The following near-continuous water level records are available at these sites:

Resolute, 1957 to present
Cambridge Bay, 1961 to present
Spence Bay, 1969 to present
Coppermine, 1971 to present

Refer to Section 11.3 for more detail.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95°
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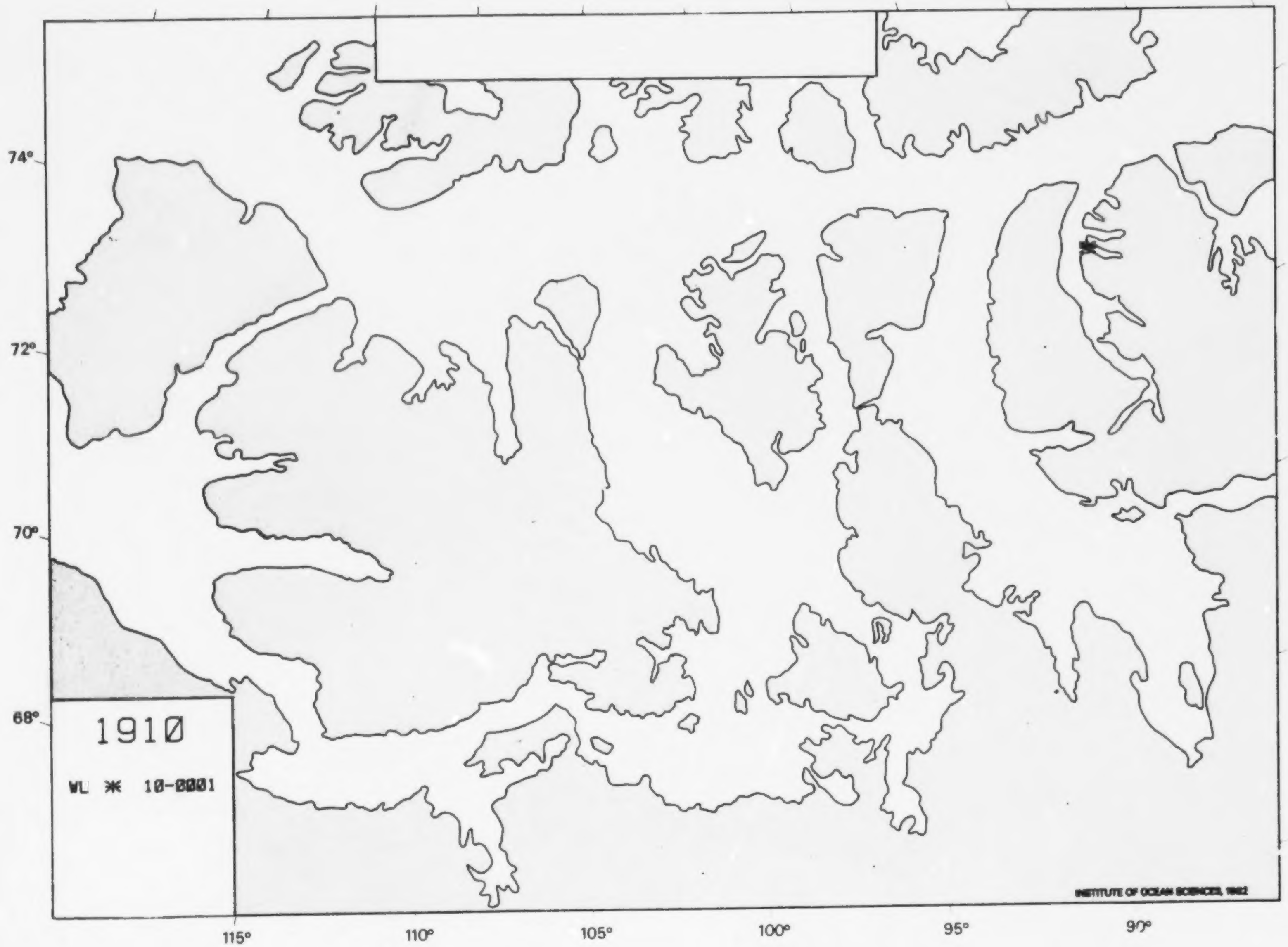
115°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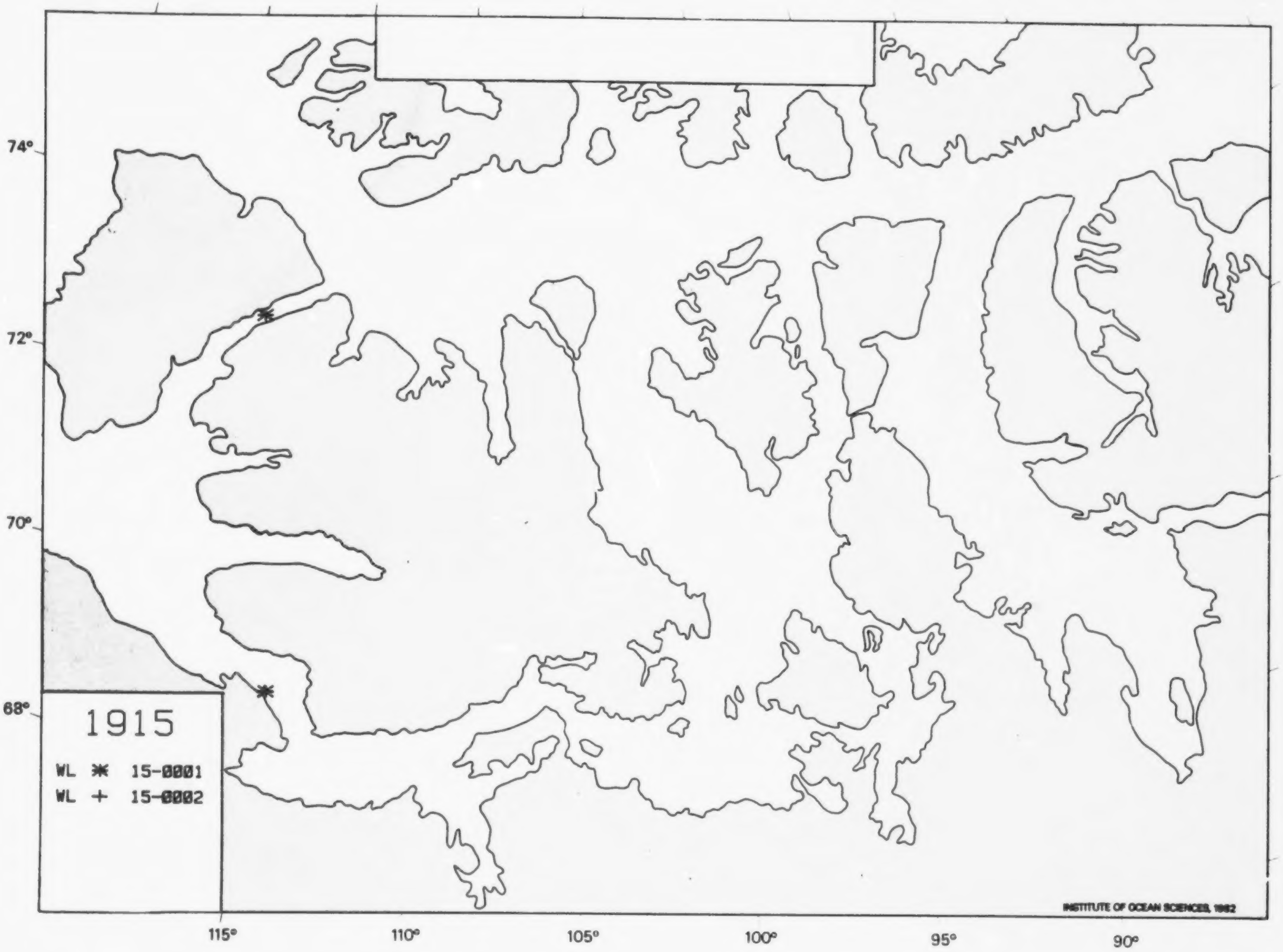
95°
90°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WL ✳ 15-0001
WL + 15-0002
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100°
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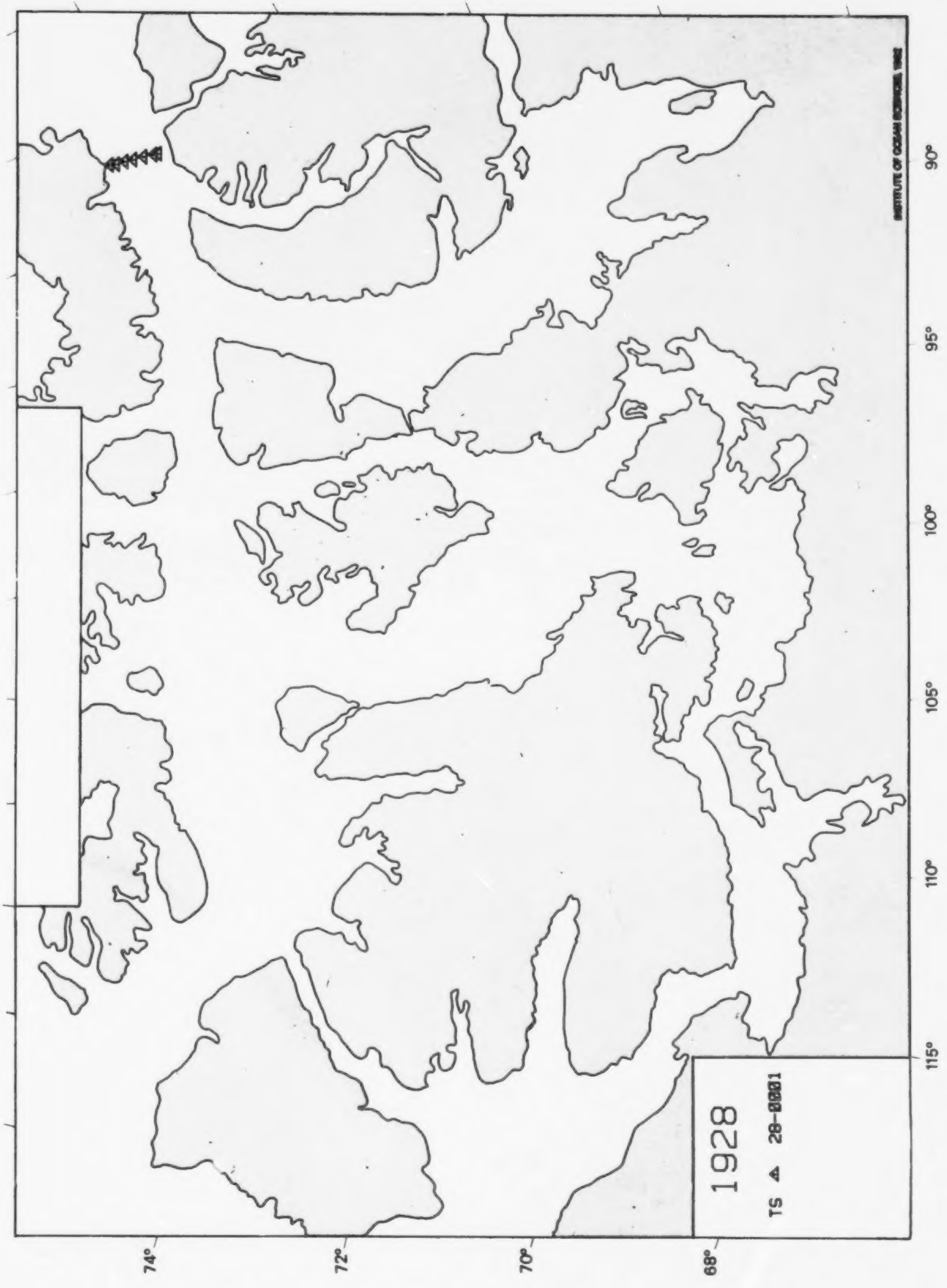
INSTITUTE OF OCEAN SCIENCES, 1982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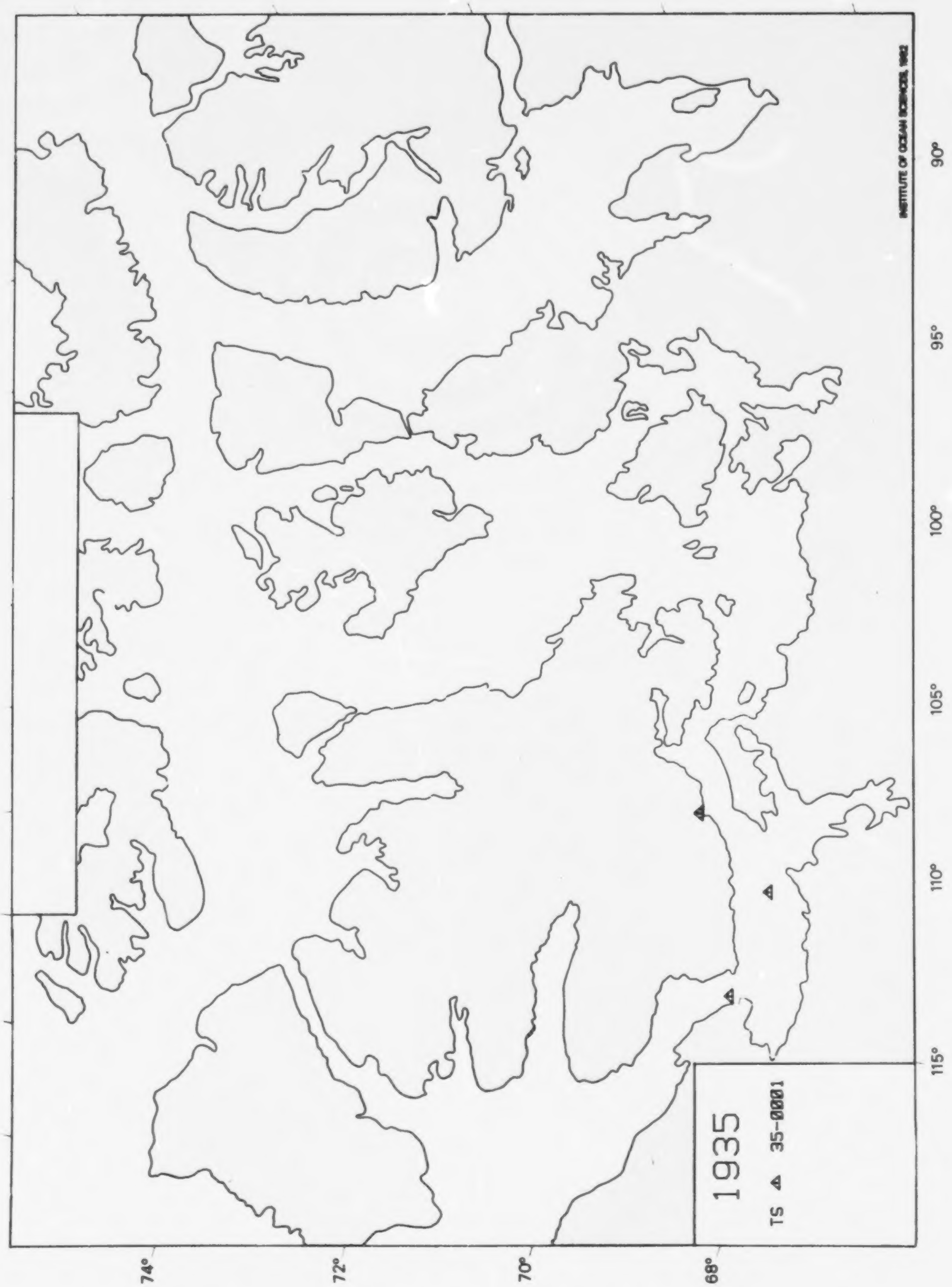
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74°
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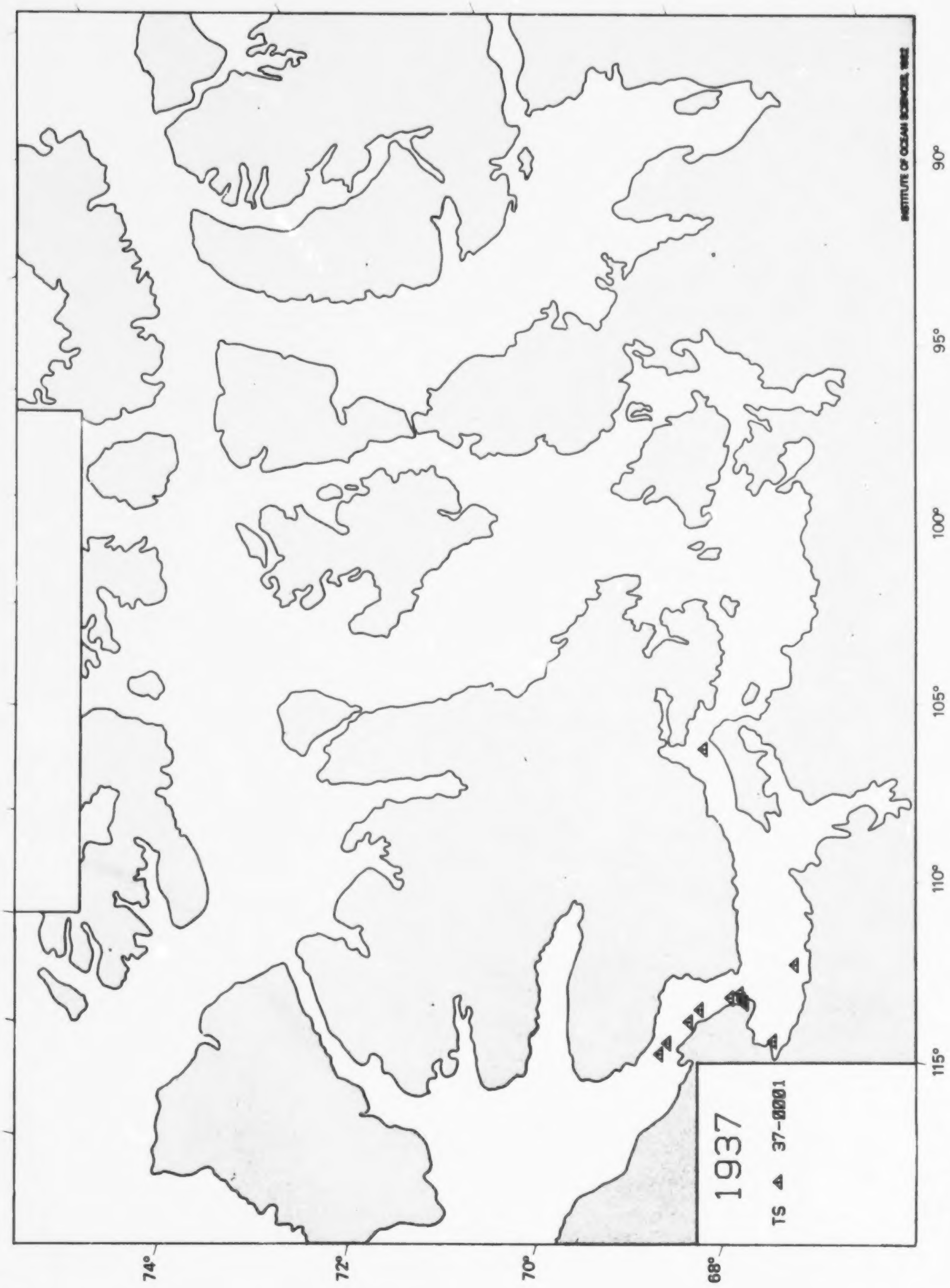
68°


1937
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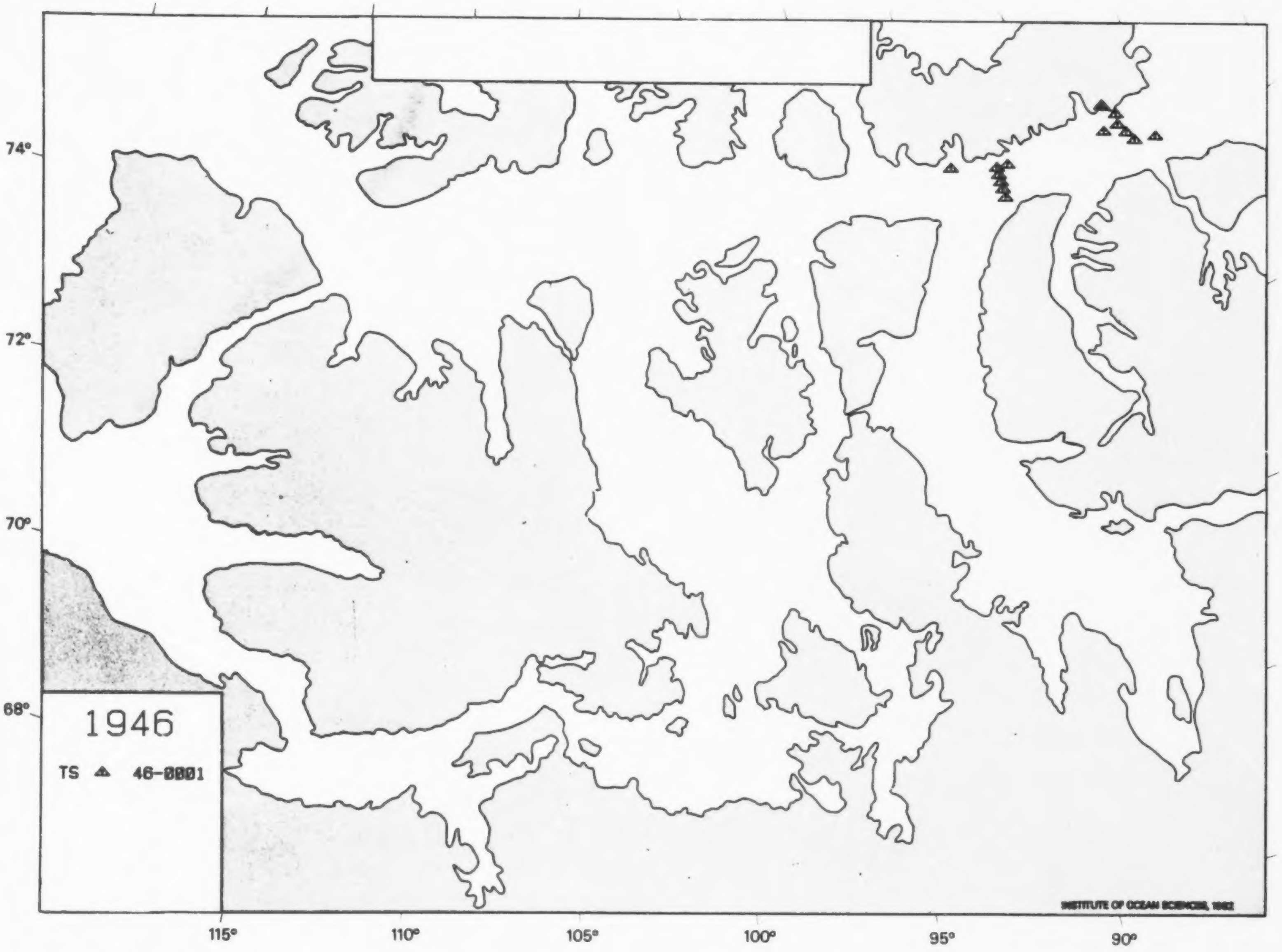
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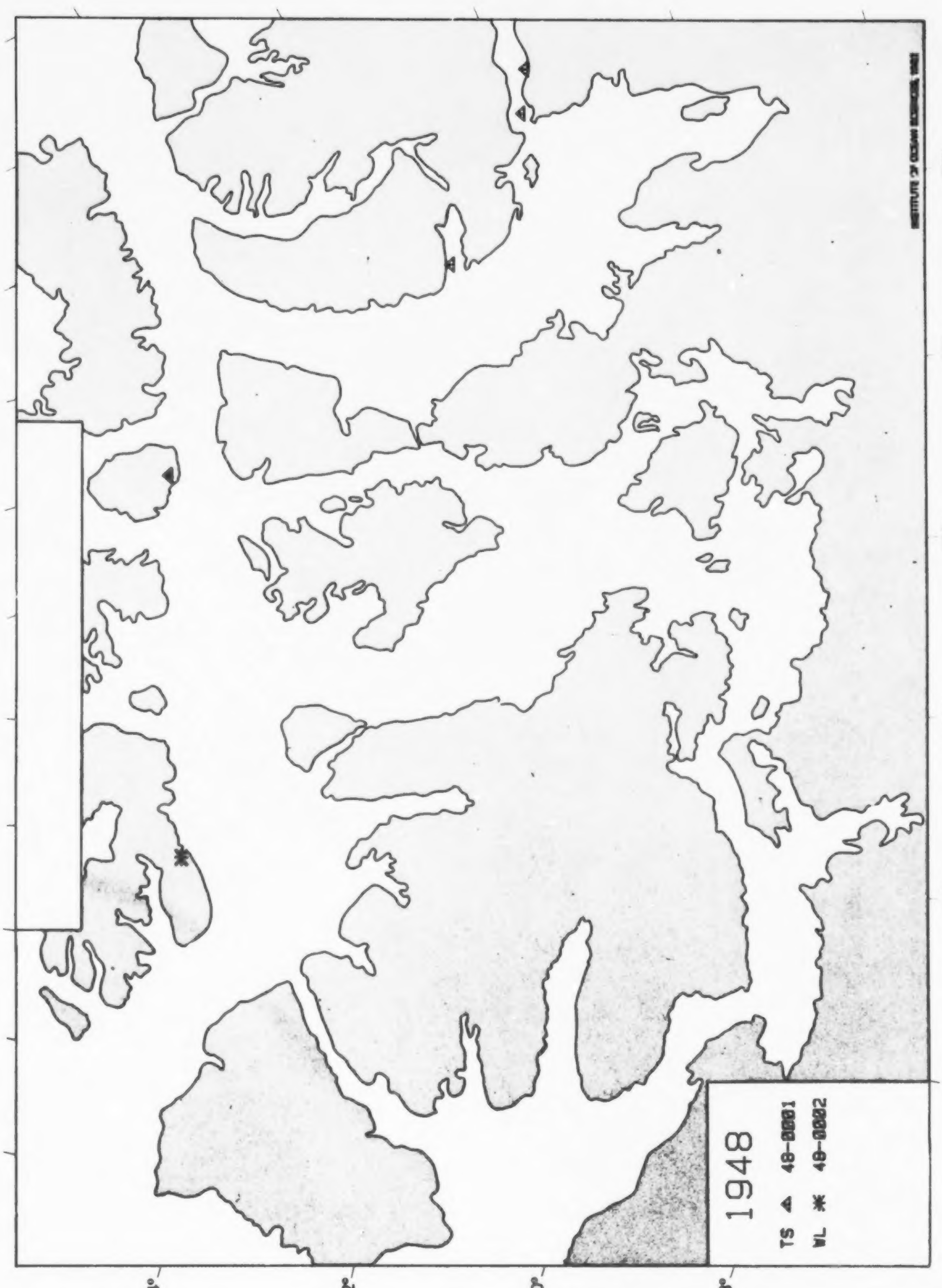
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1948
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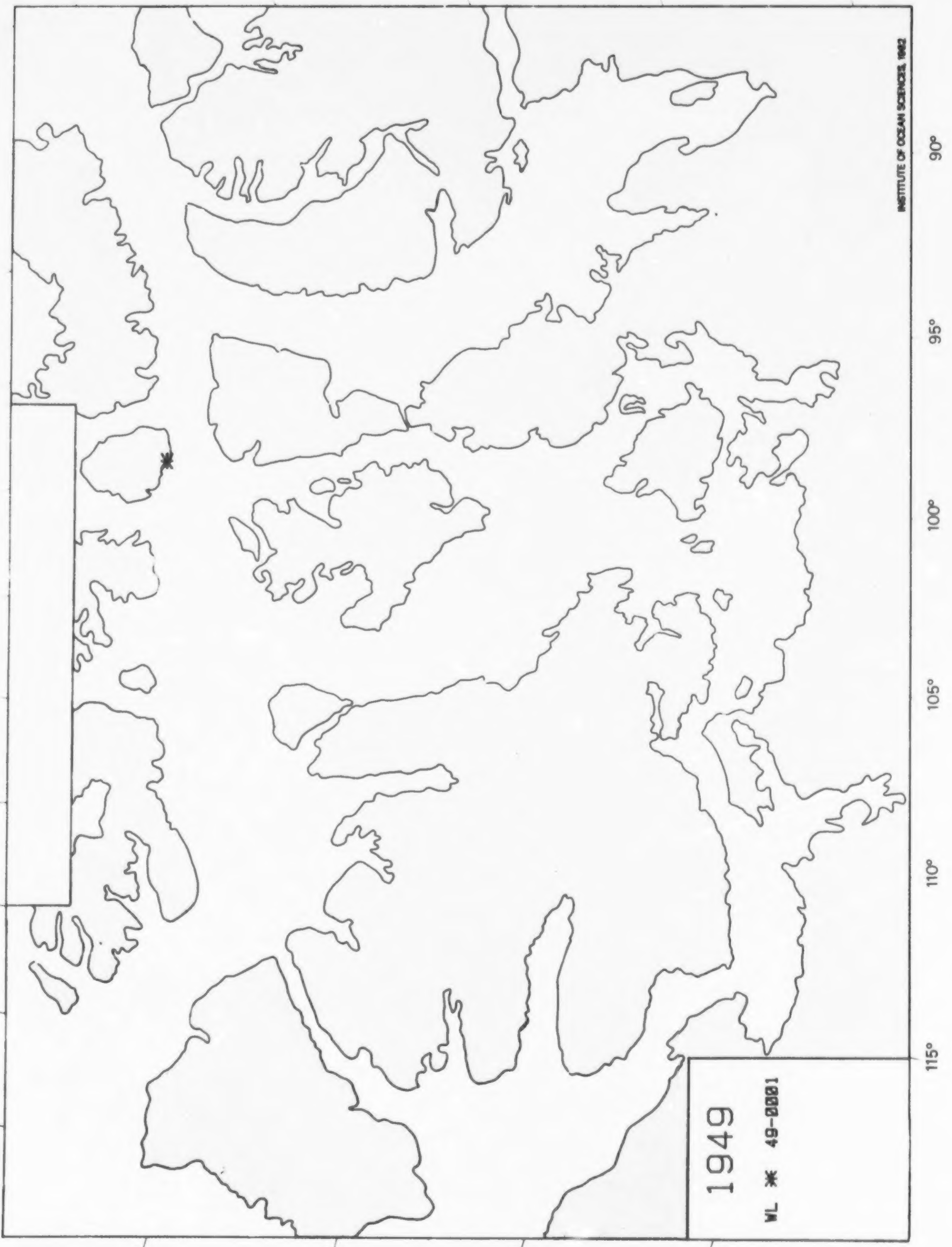
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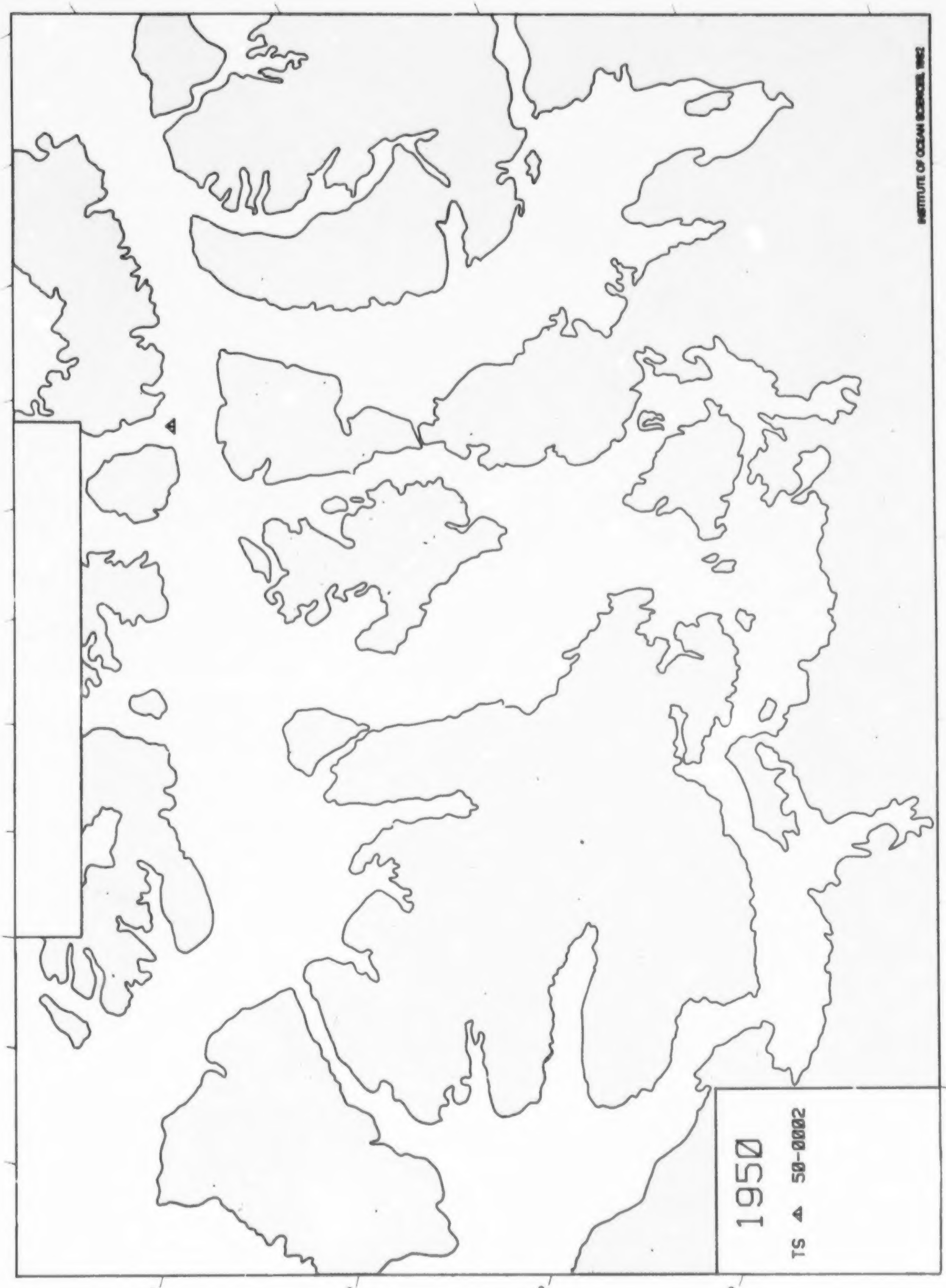
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1950
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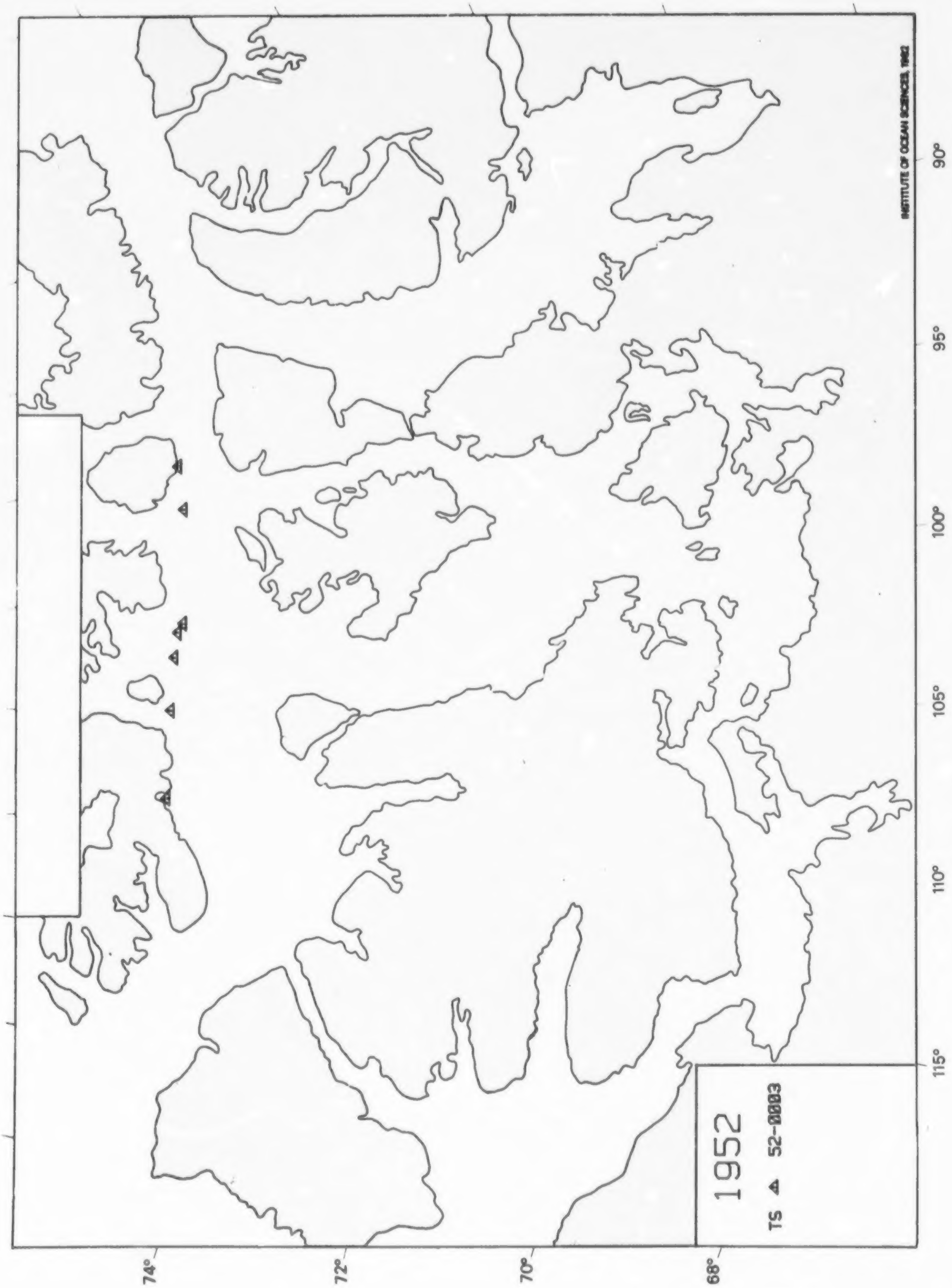
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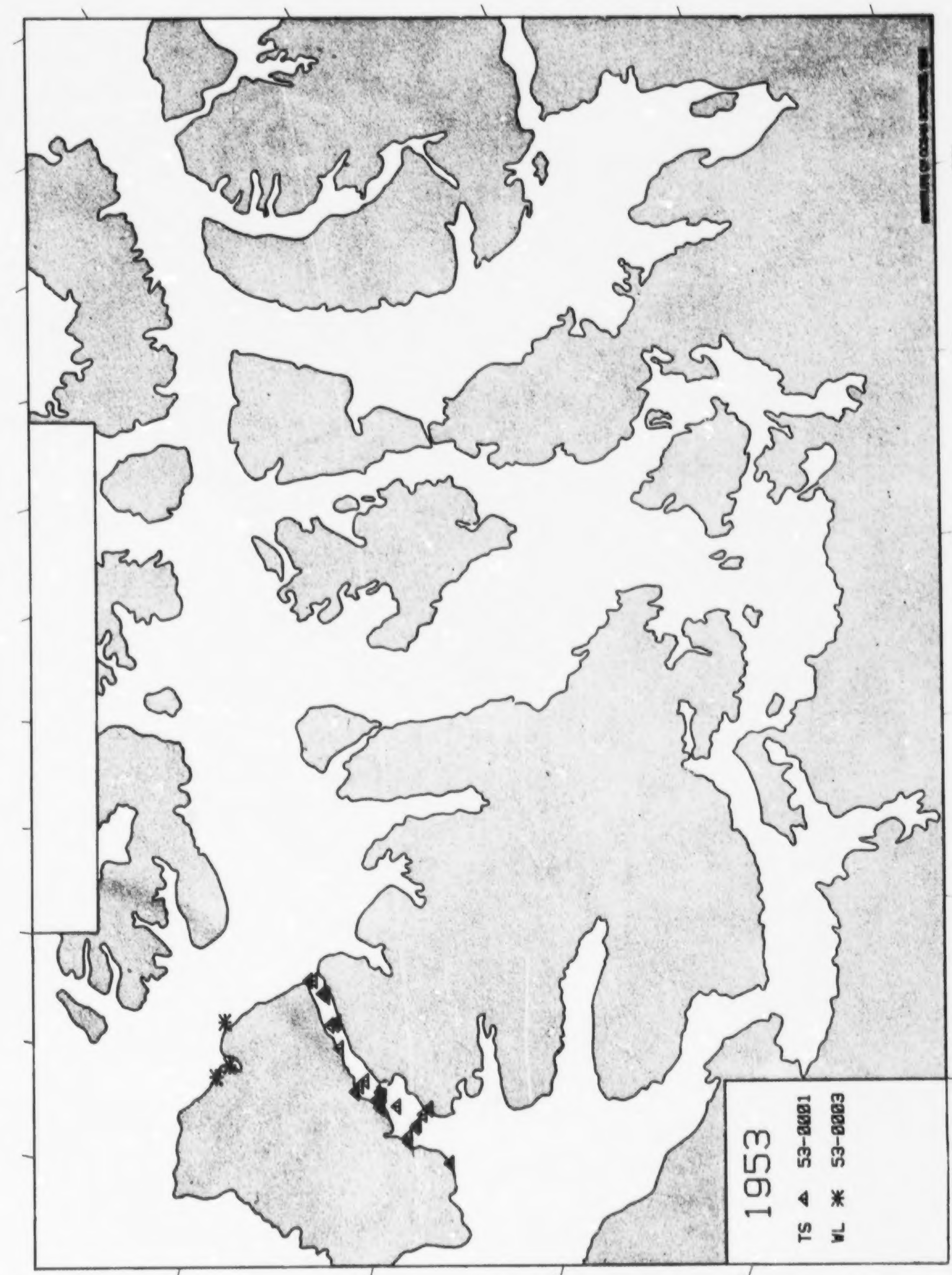
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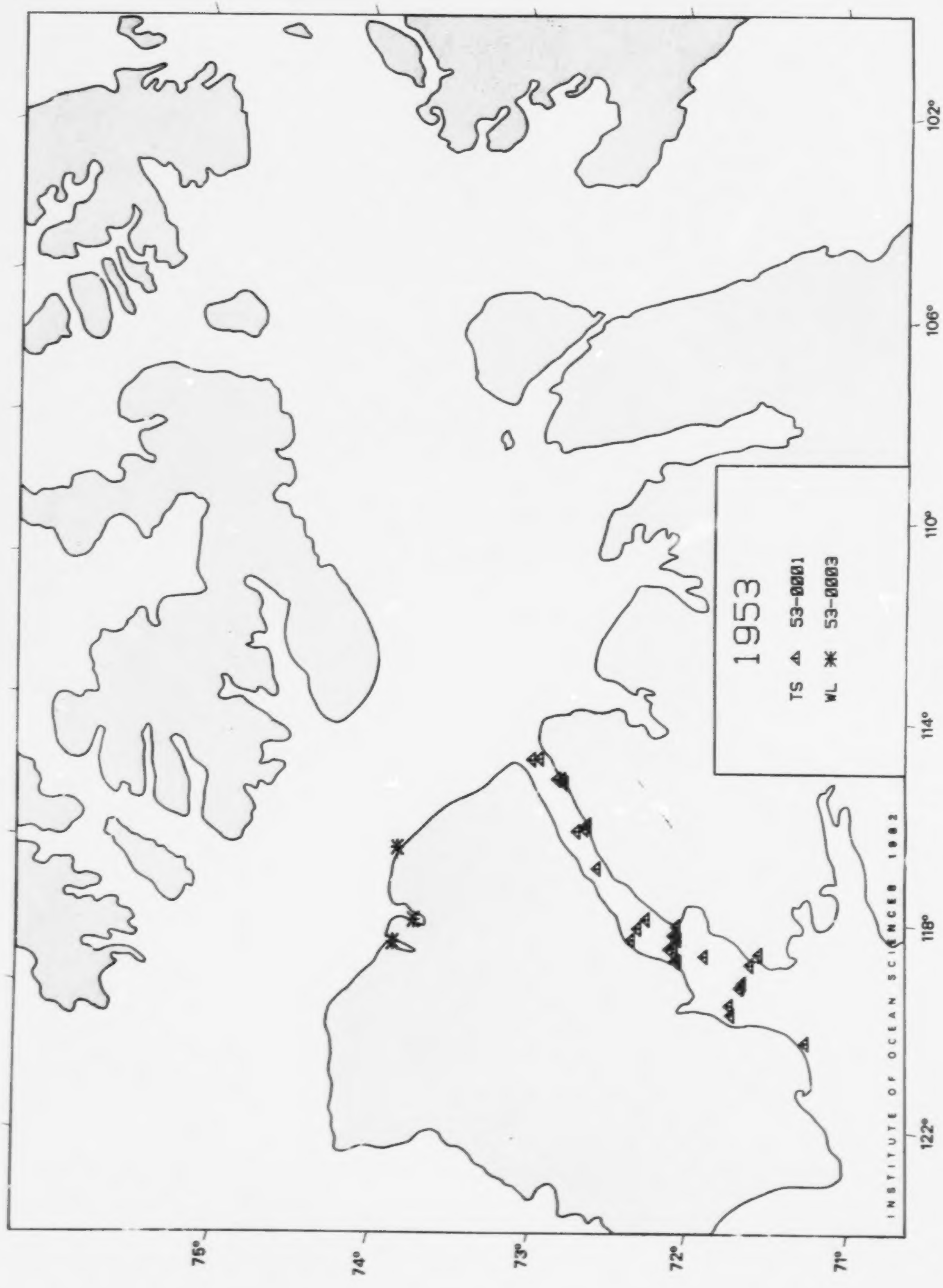
1953
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WL ✱ 53-0003
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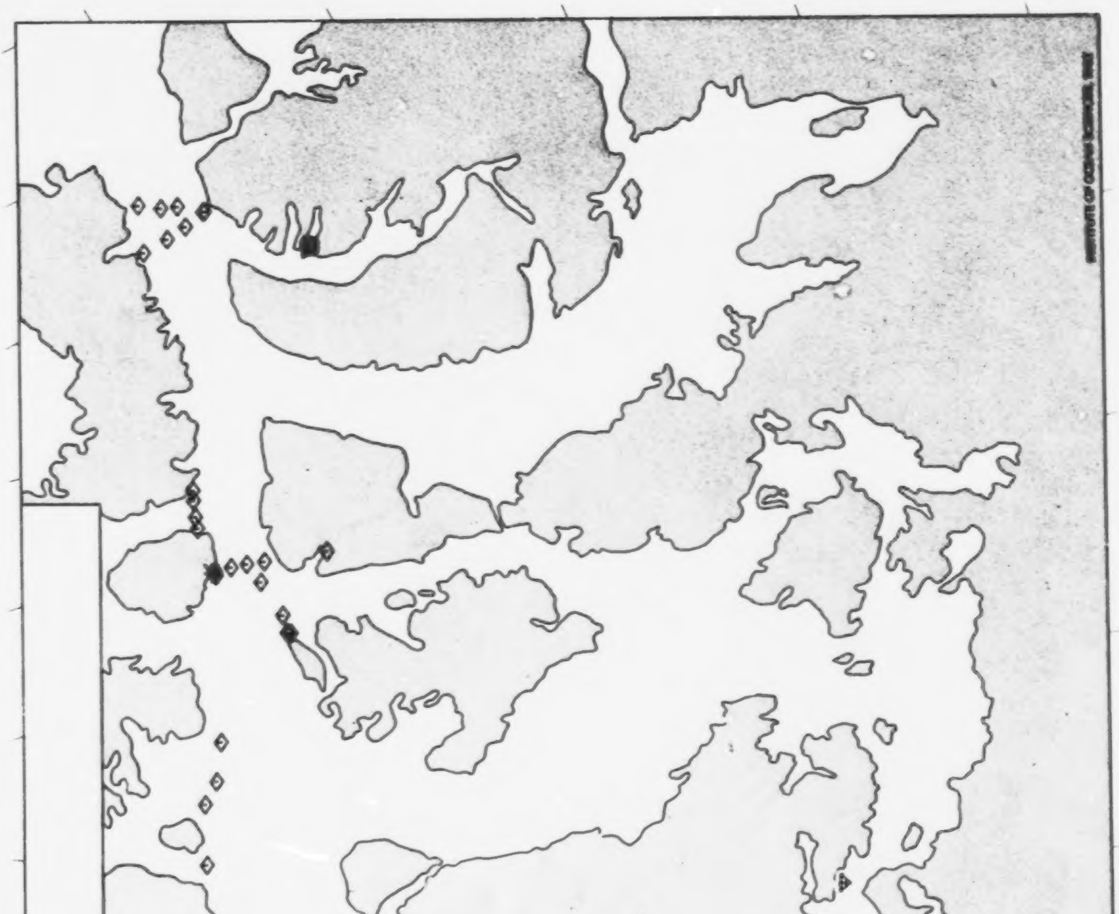
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TS ▼ 54-0004
TS ◈ 54-0001
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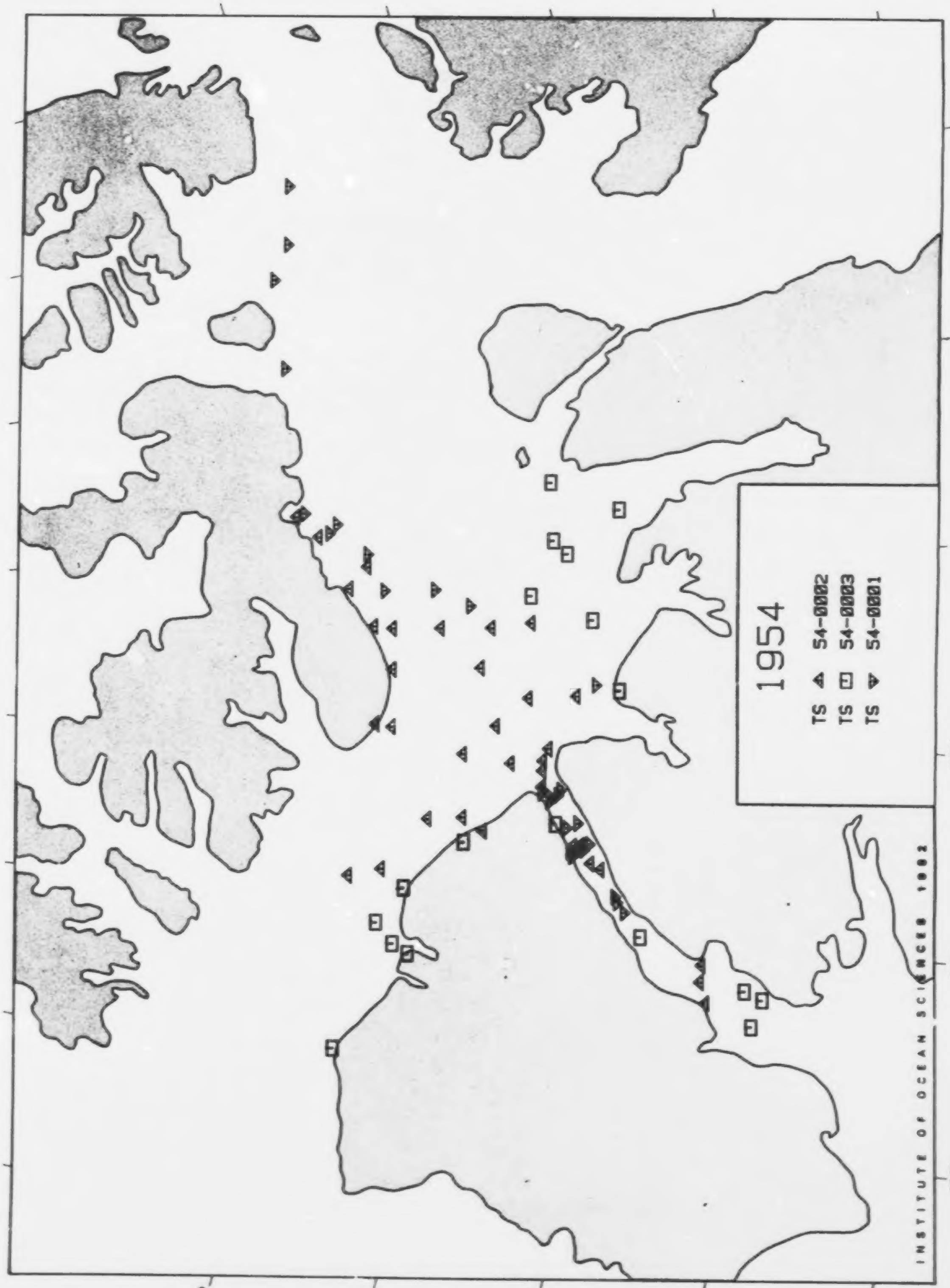
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TS ▼ 54-0001
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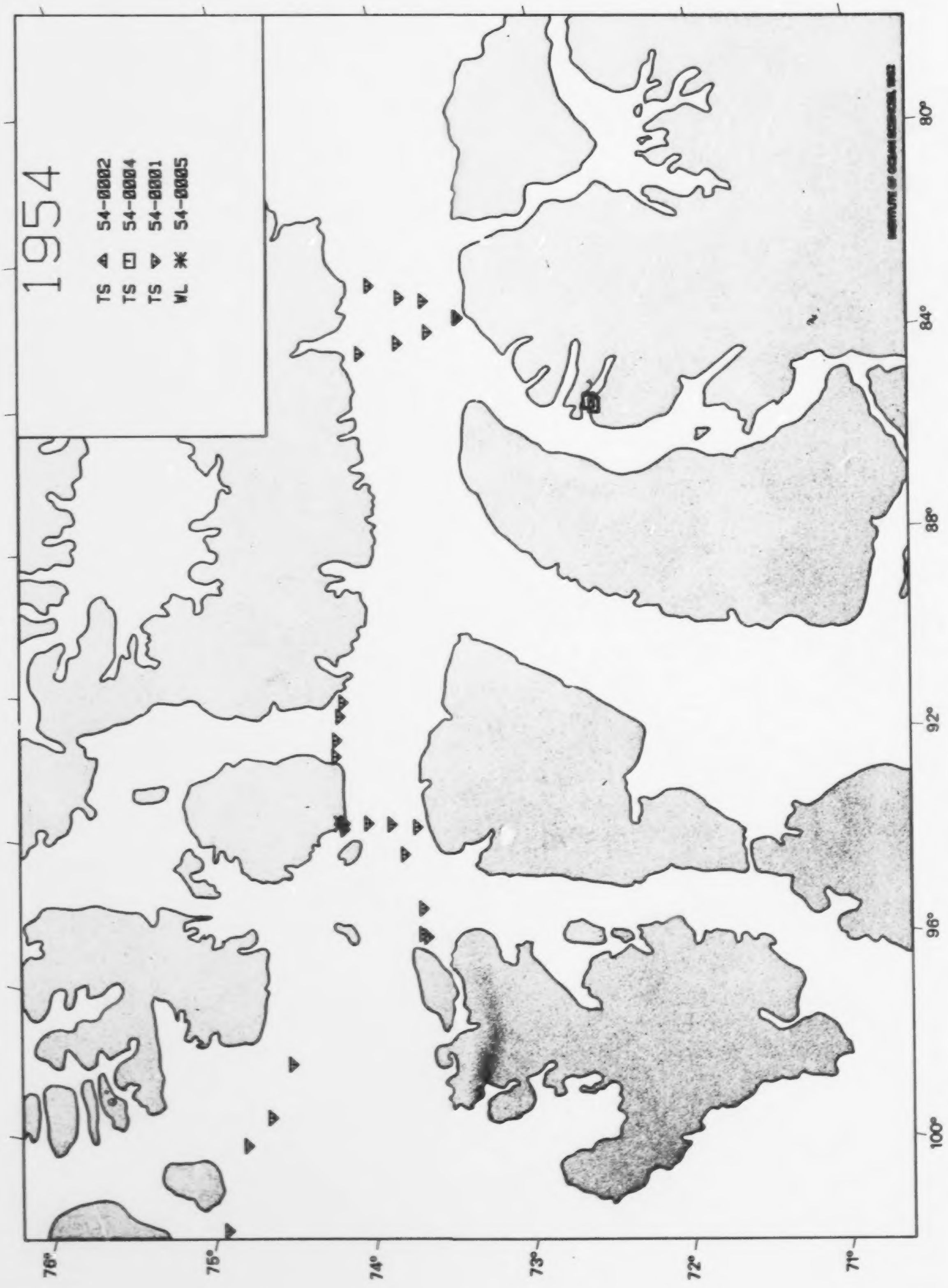
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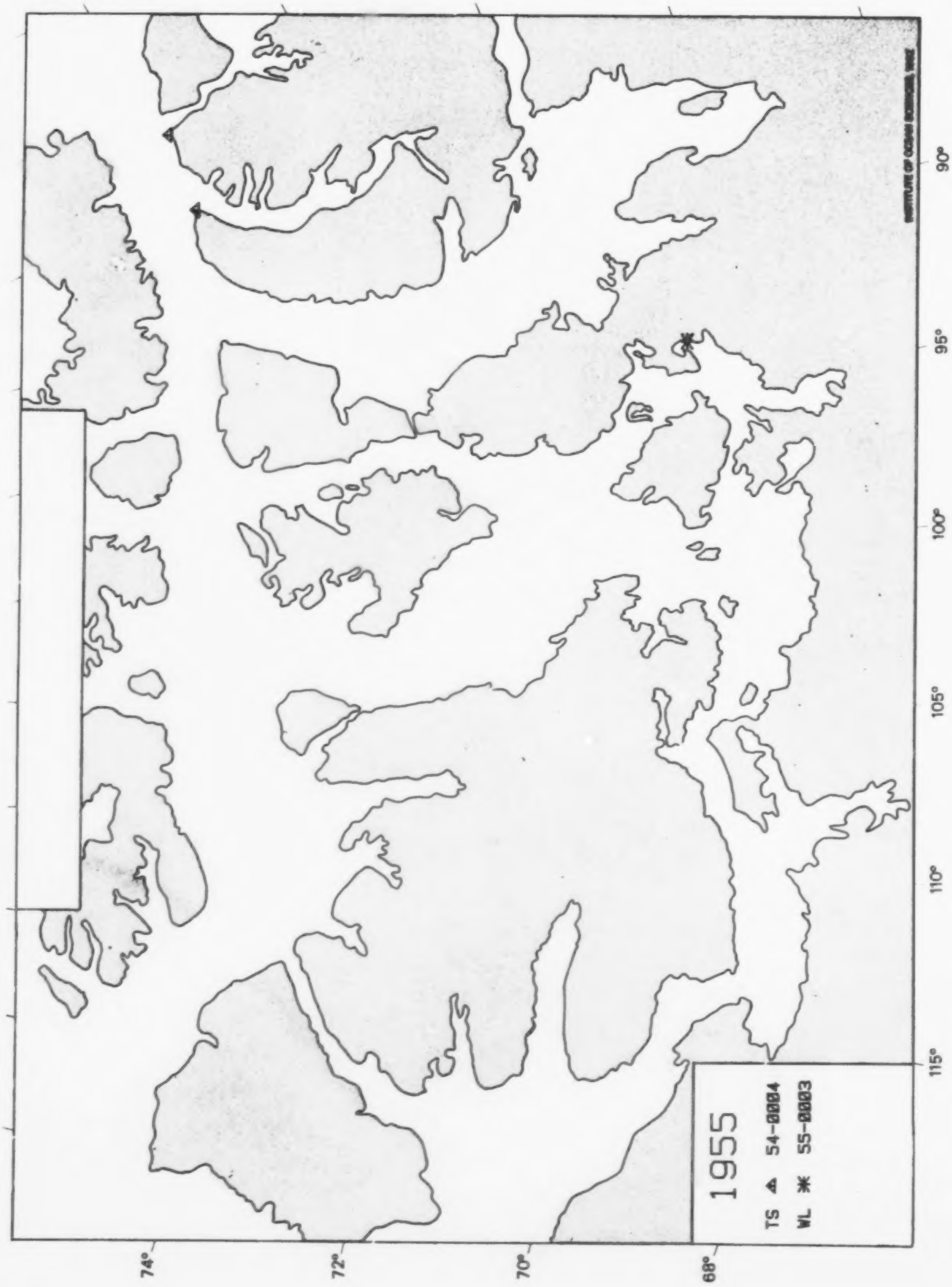
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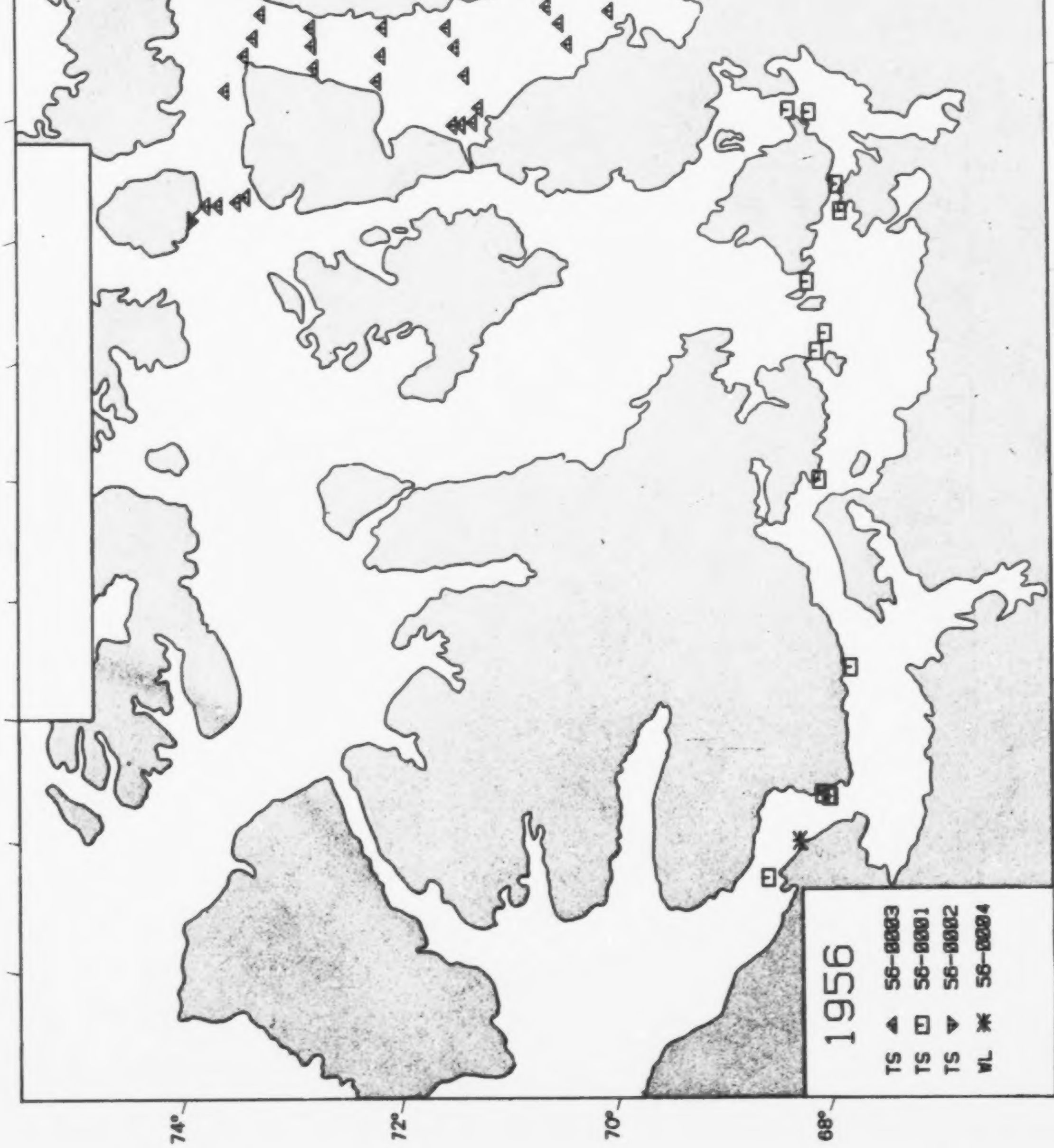
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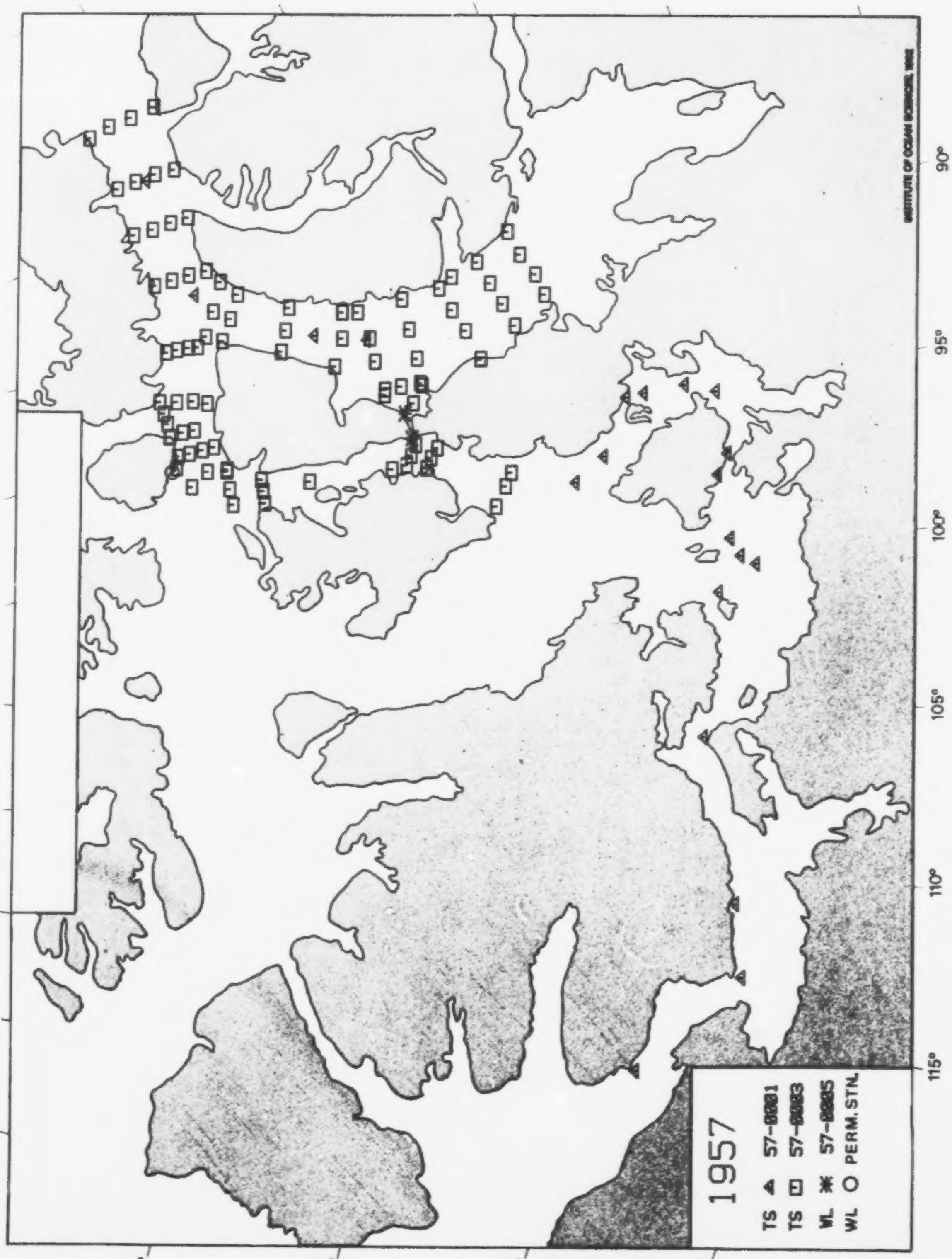
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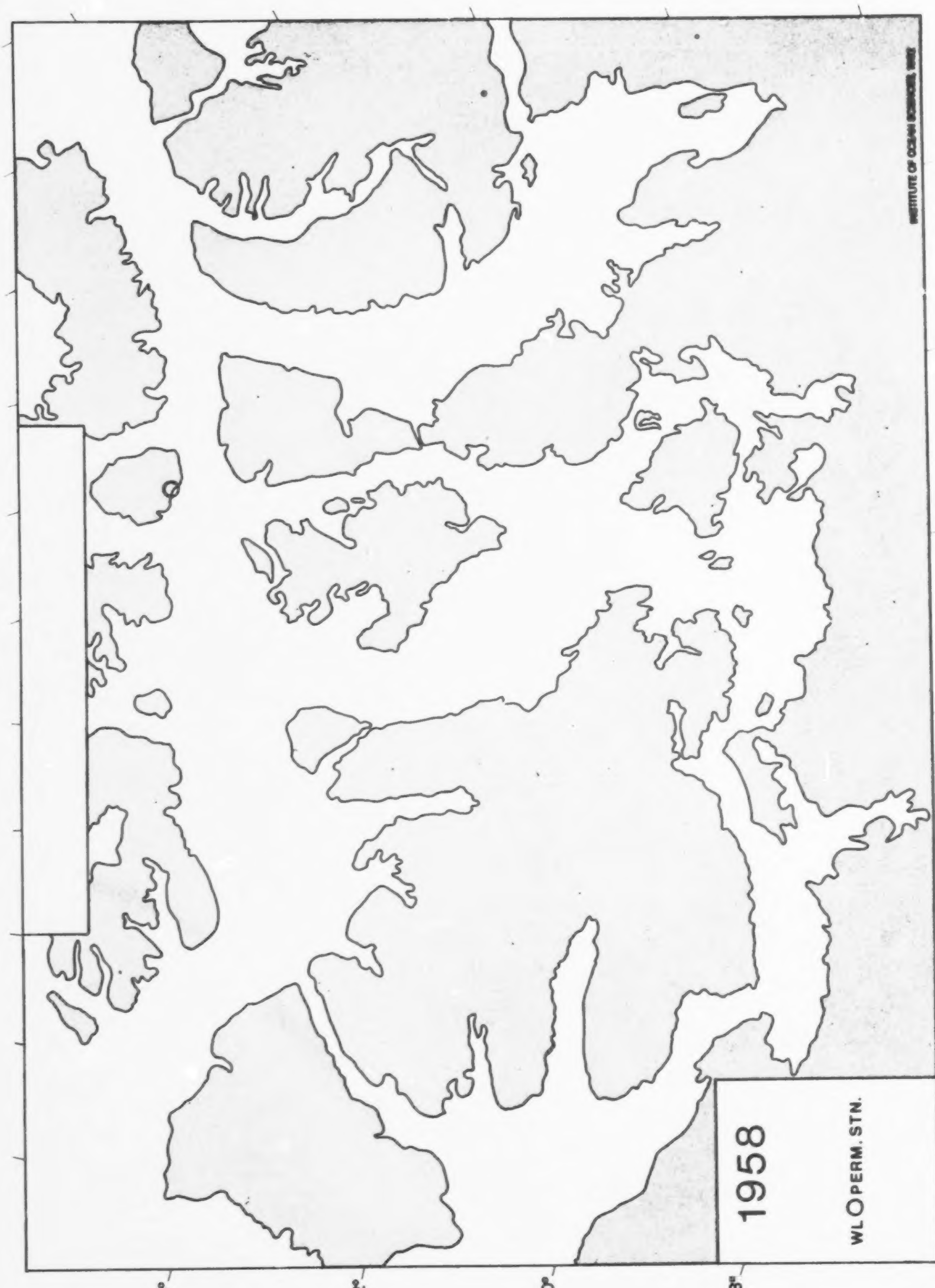
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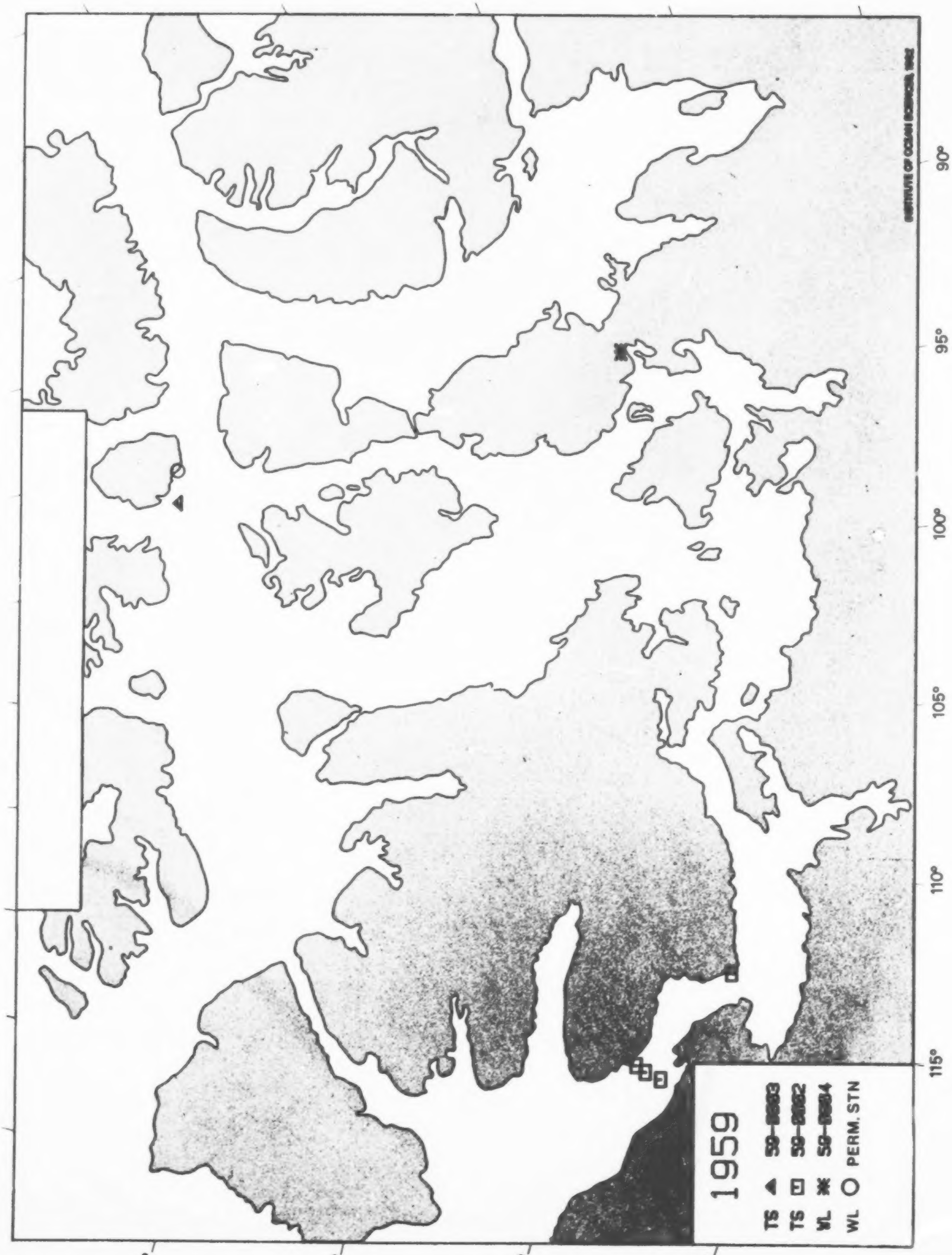
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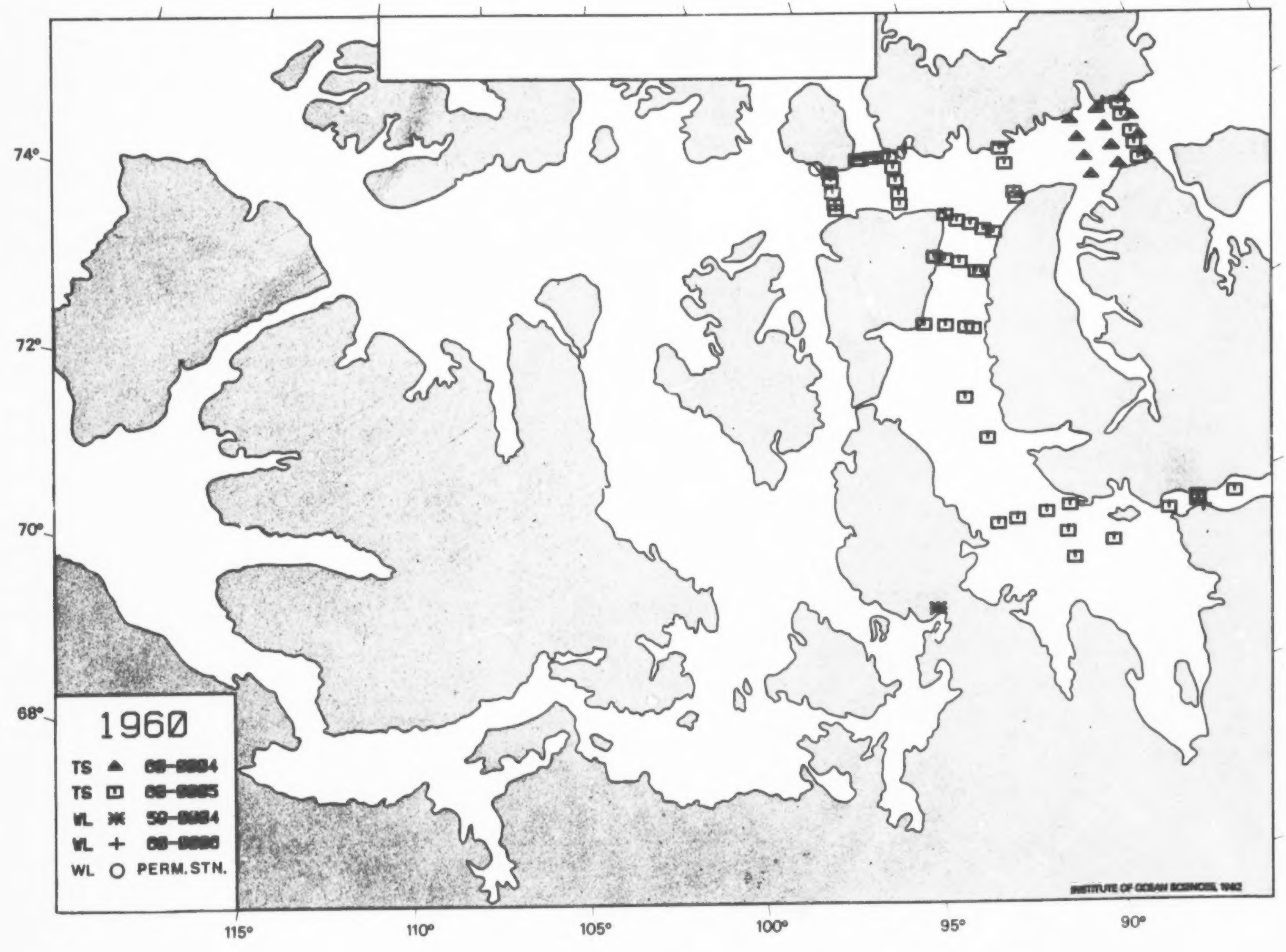
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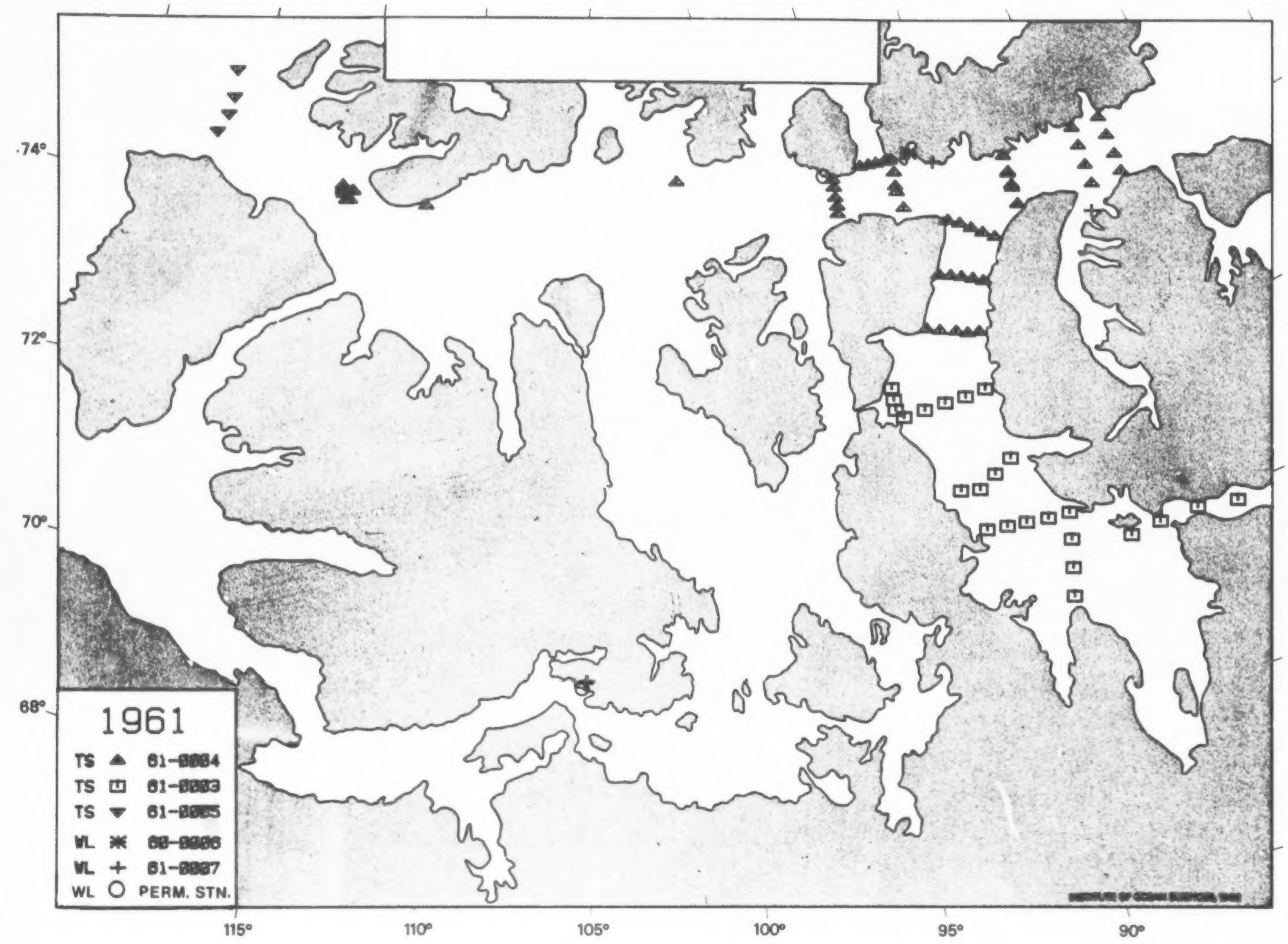

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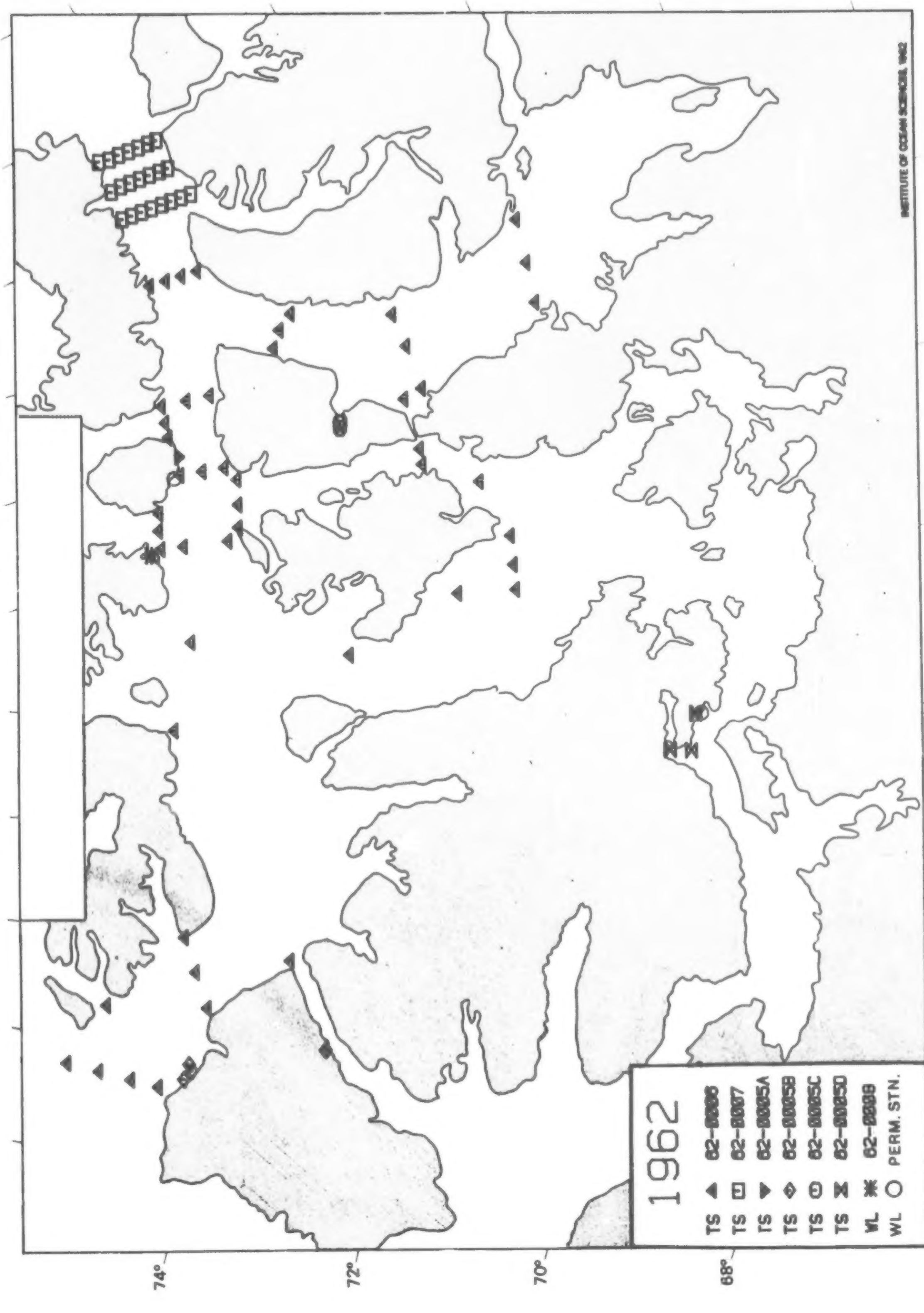
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WL ✱ 62-0208
WL ○ PERM. STN.
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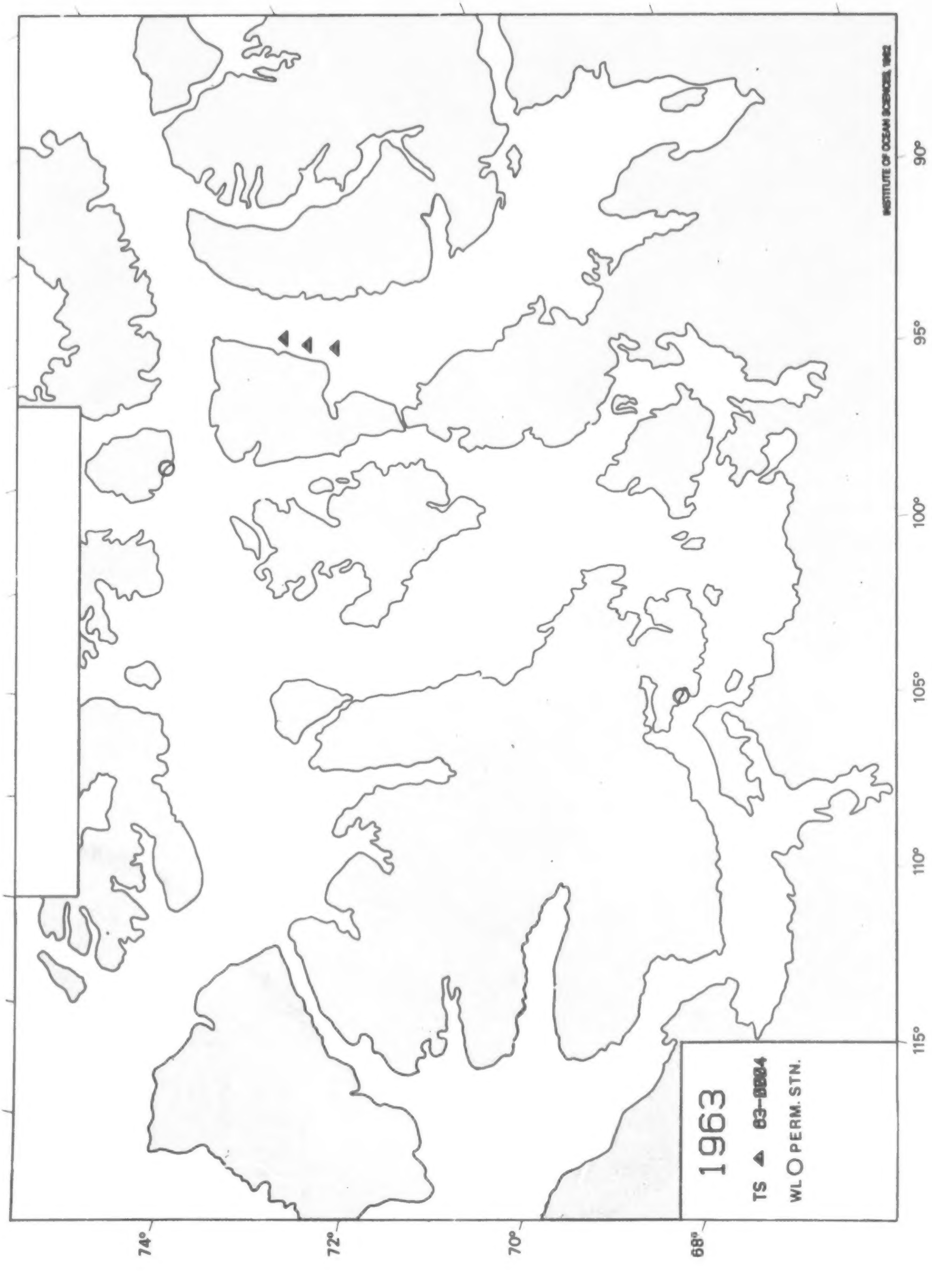
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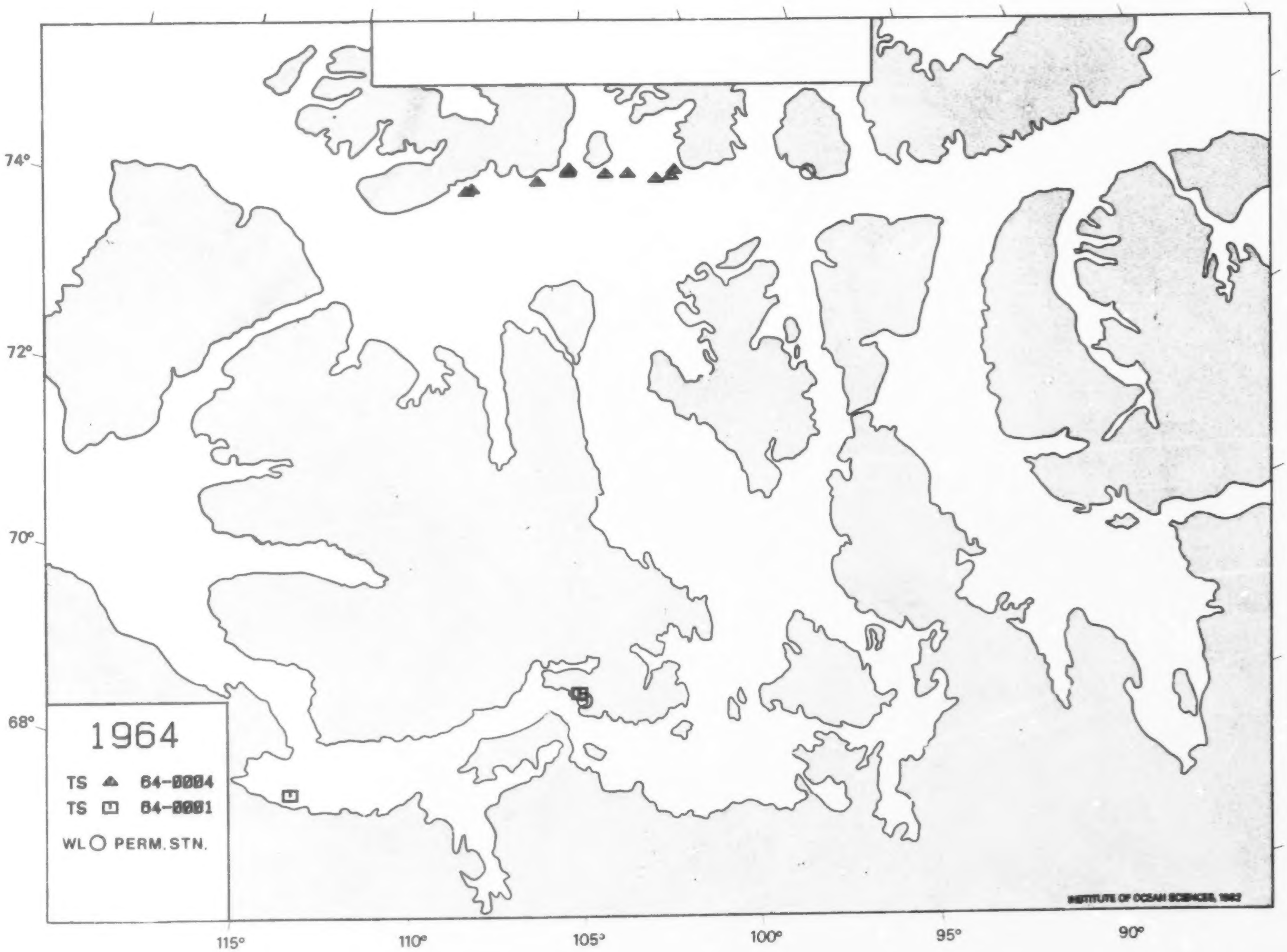
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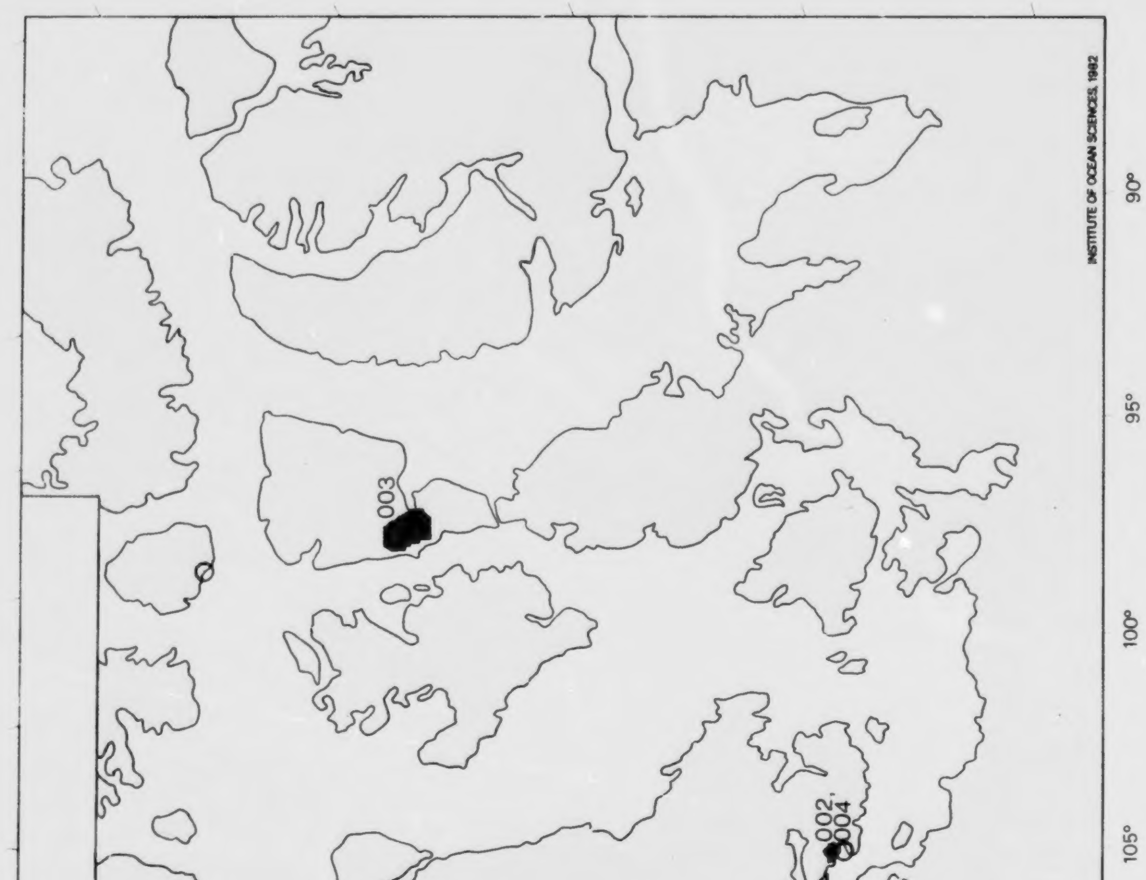
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TS ▼ 65-0004
WL ○ PERM. STN.
003
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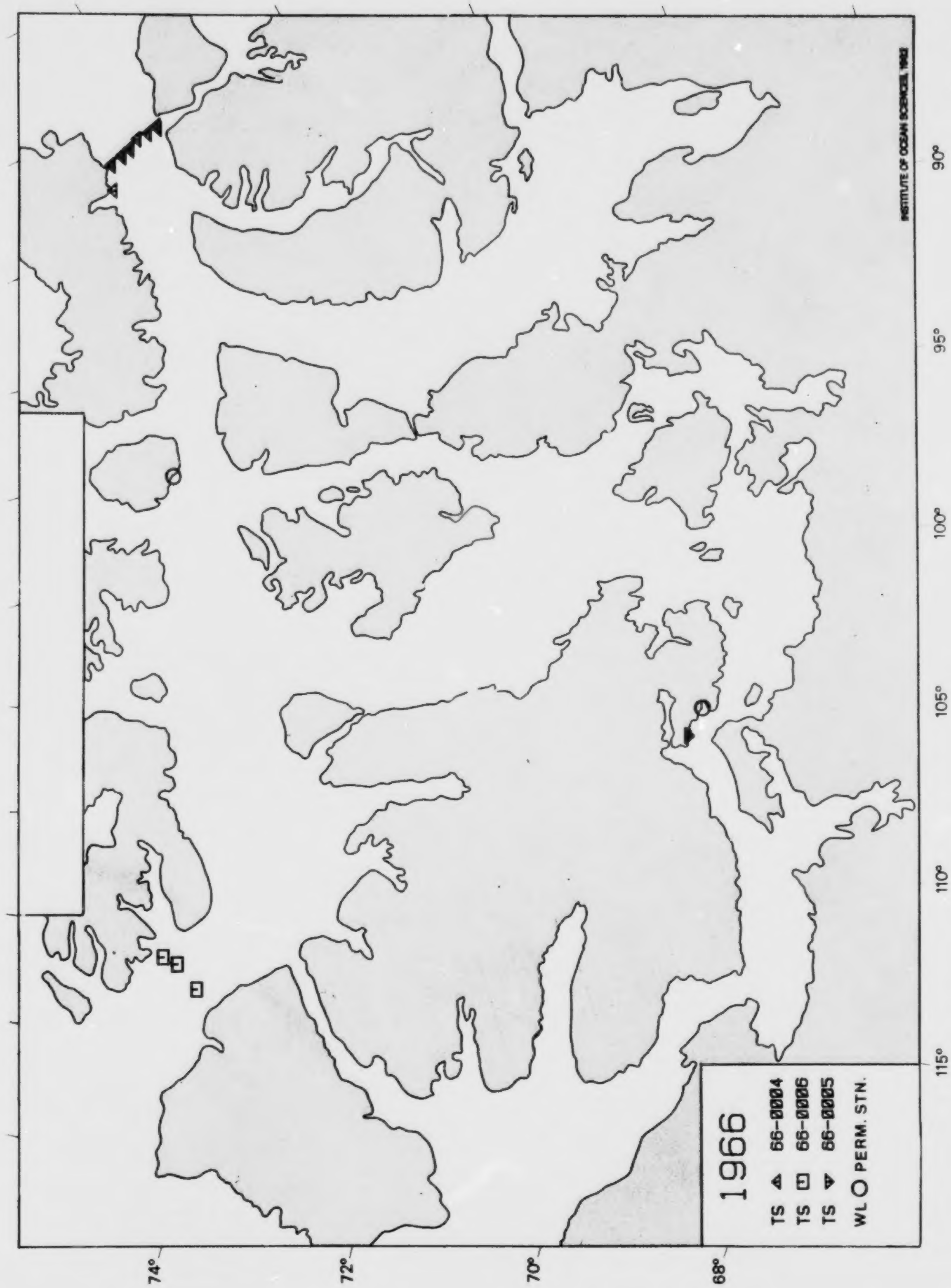
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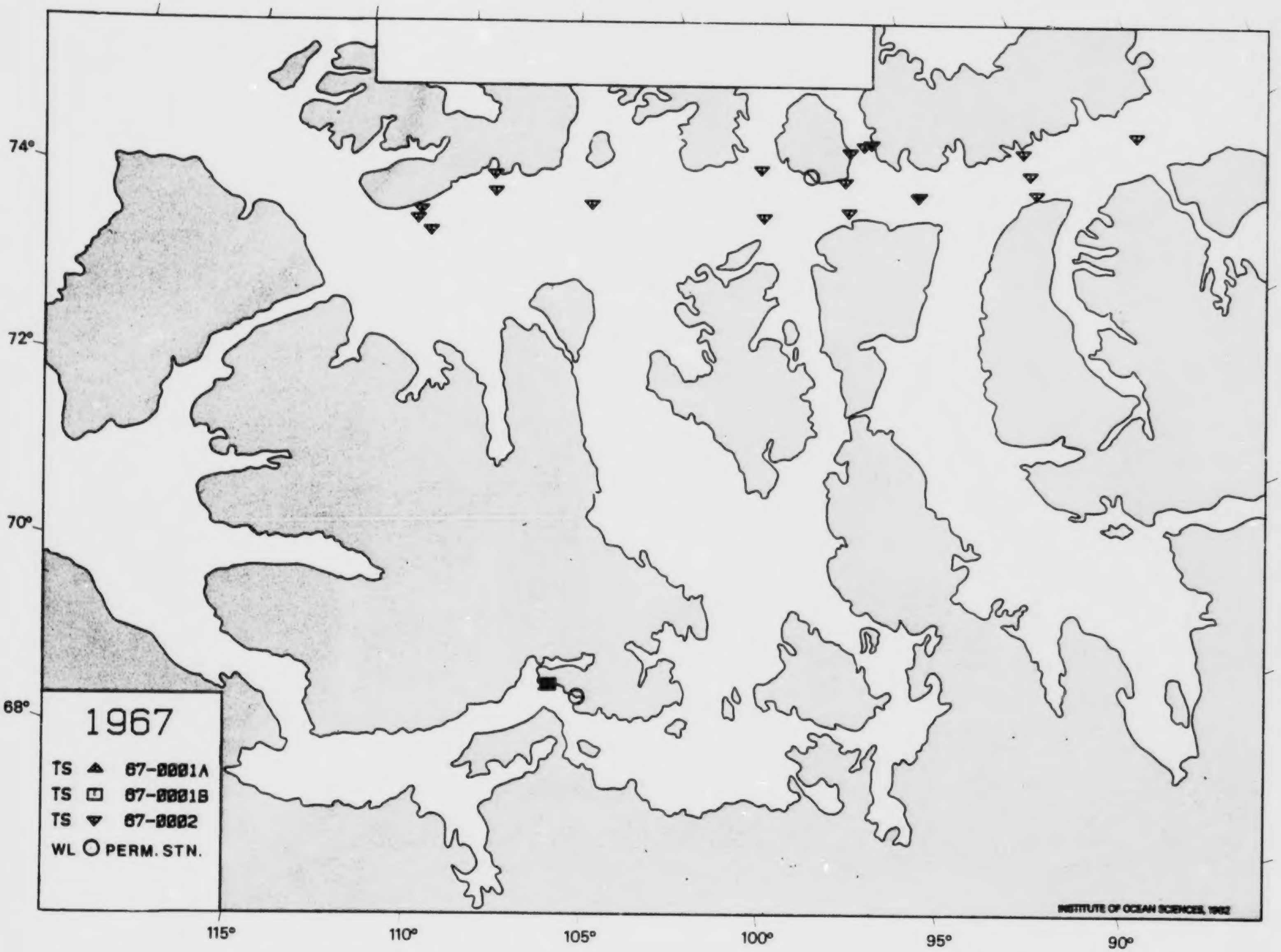
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TS ▼ 67-0002
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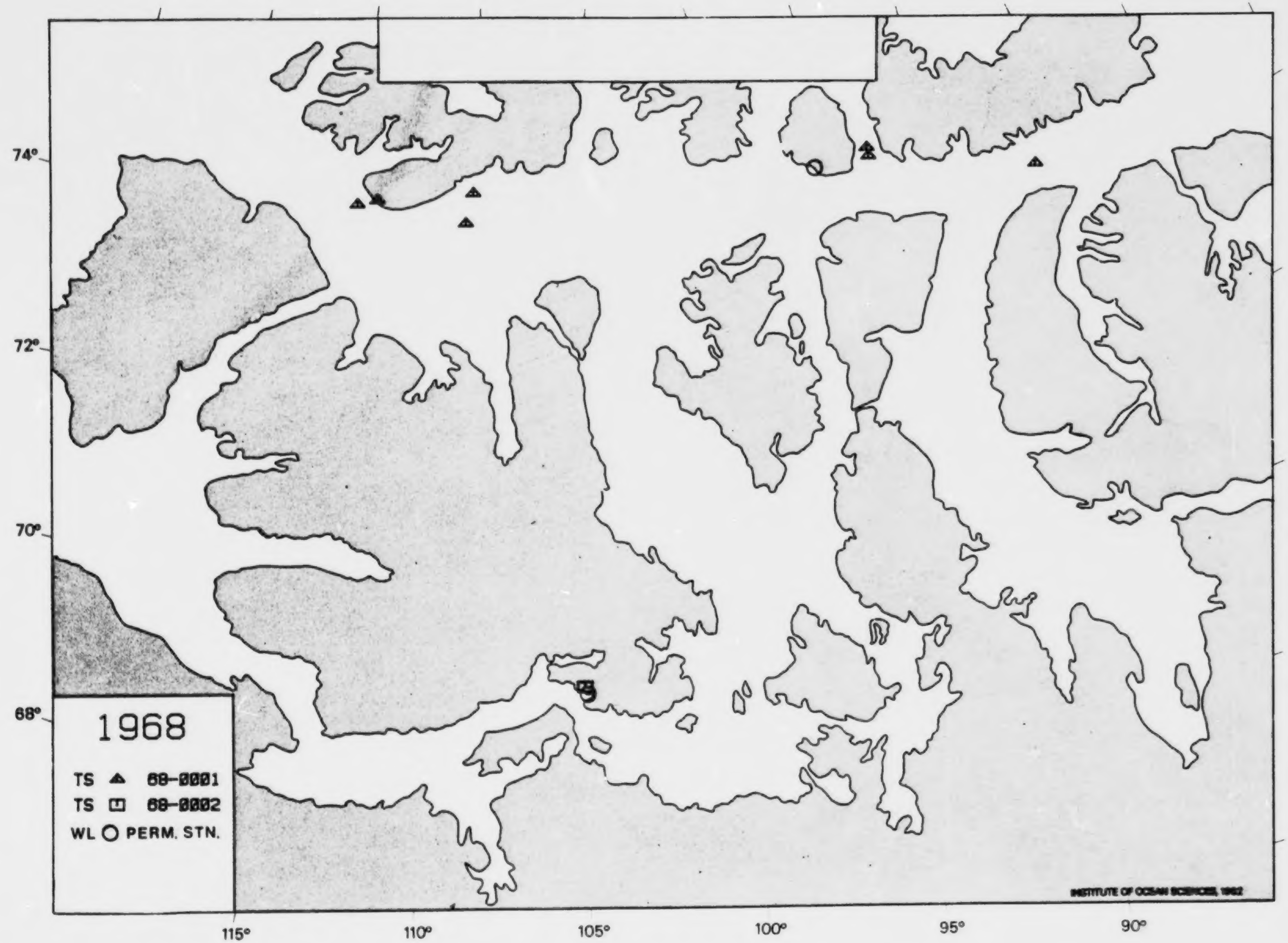
90°
INSTITUTE OF OCEAN SCIENCES, 1982


74°
72°
70°
68°
115°
110°
105°
100°
95°
90°
1968
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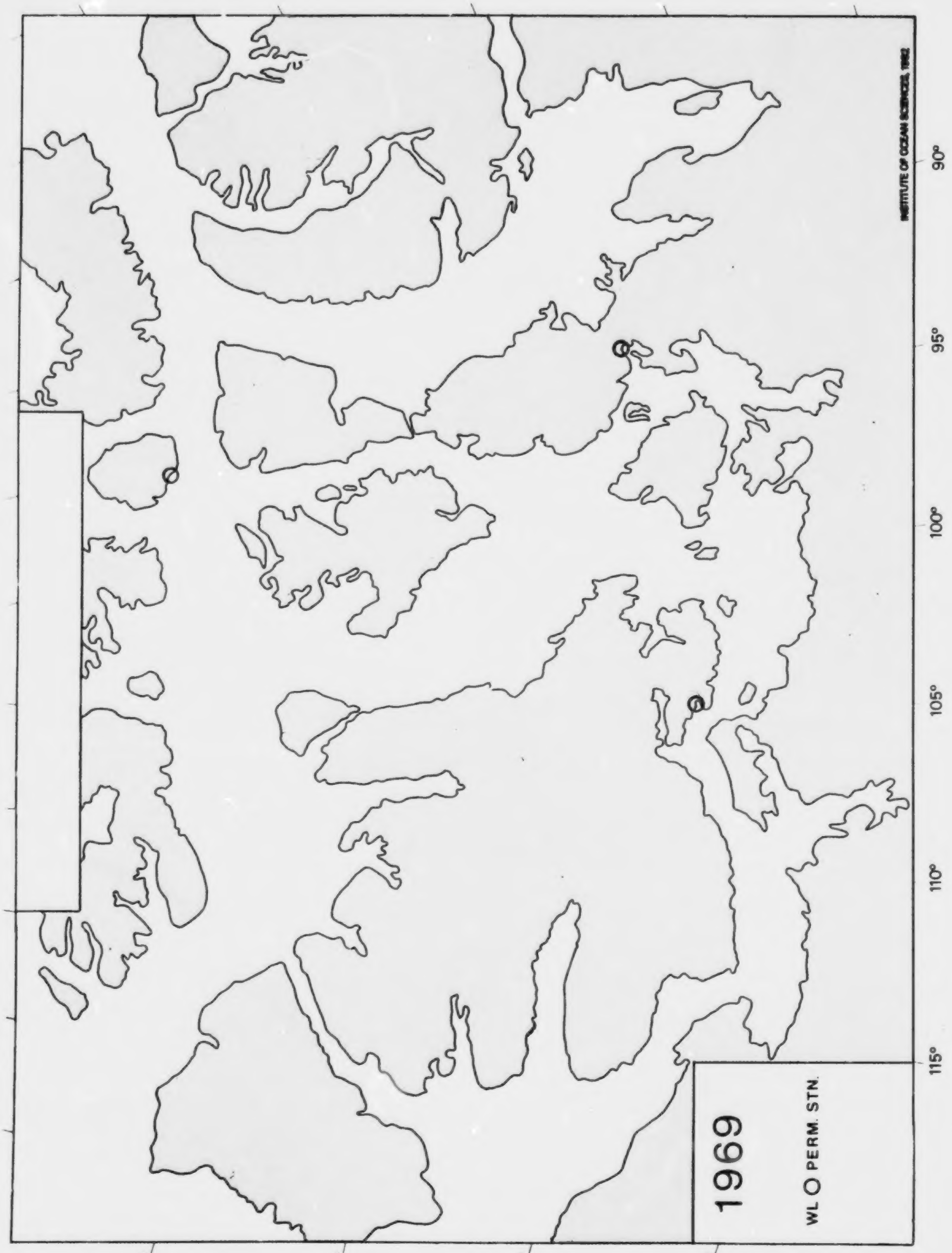
TS ⊡ 68-0002
WL ○ PERM. STN.
INSTITUTE OF OCEAN SCIENCES, 1982


1969
WL ○ PERM. STN.
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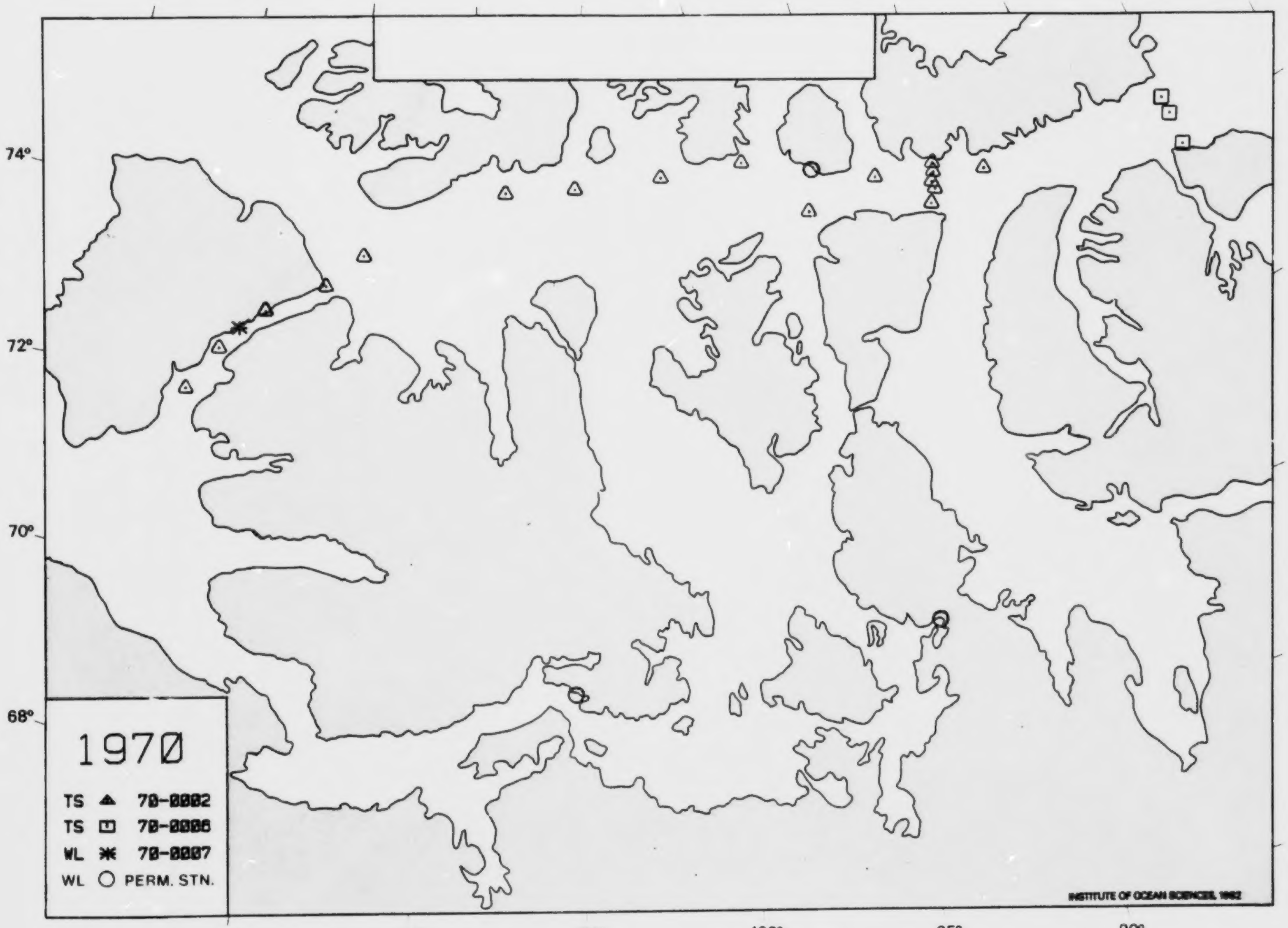
100°
105°
110°
115°


1970
TS ▲ 70-0002
TS ⊡ 70-0006
WL ✱ 70-0007
WL ○ PERM. STN.
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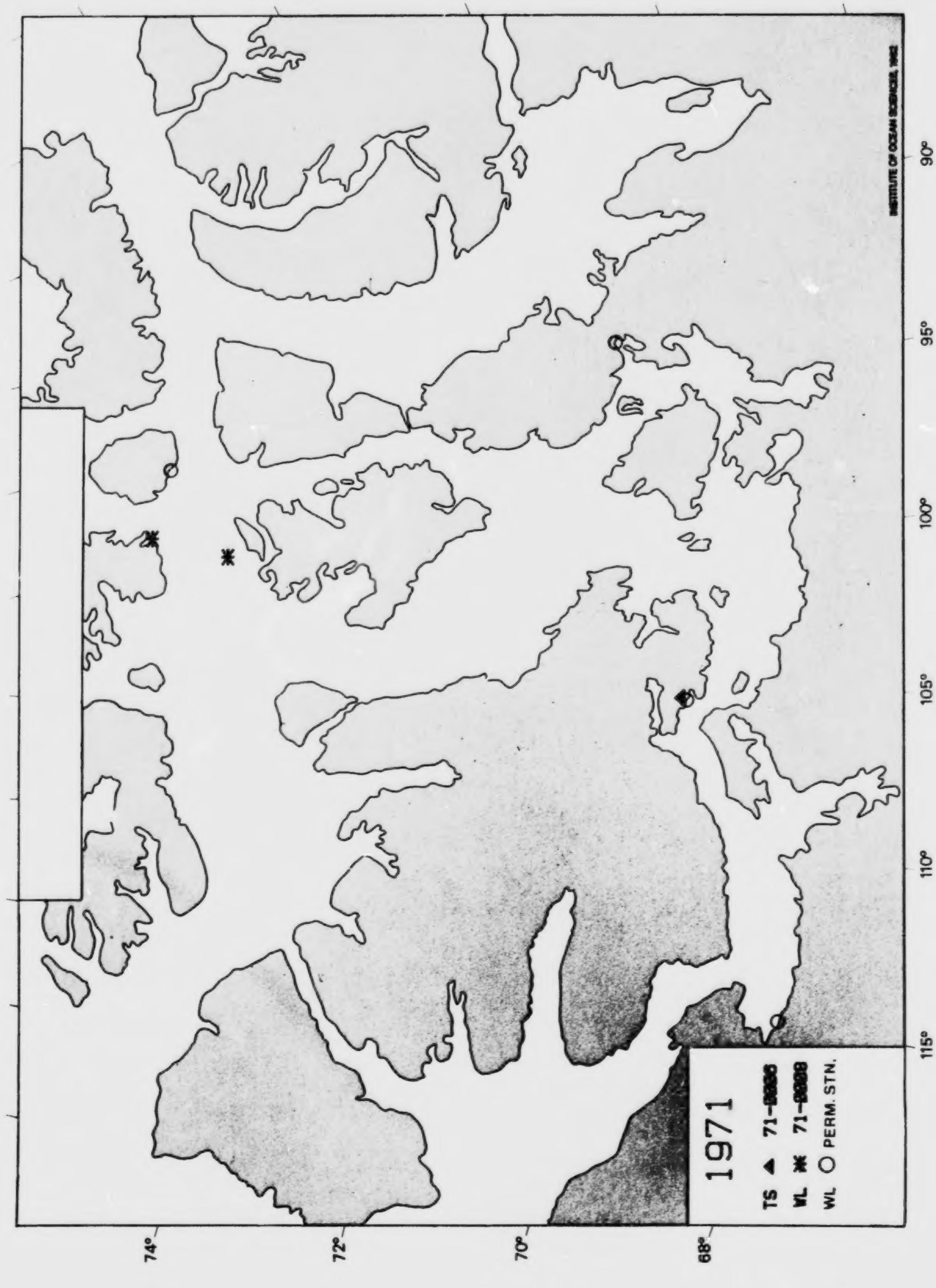
72°
70°
68°
115°
110°
105°
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982


1971
TS ▲ 71-[illegible]
WL ✱ 71-[illegible]
WL ○ PERM. STN.
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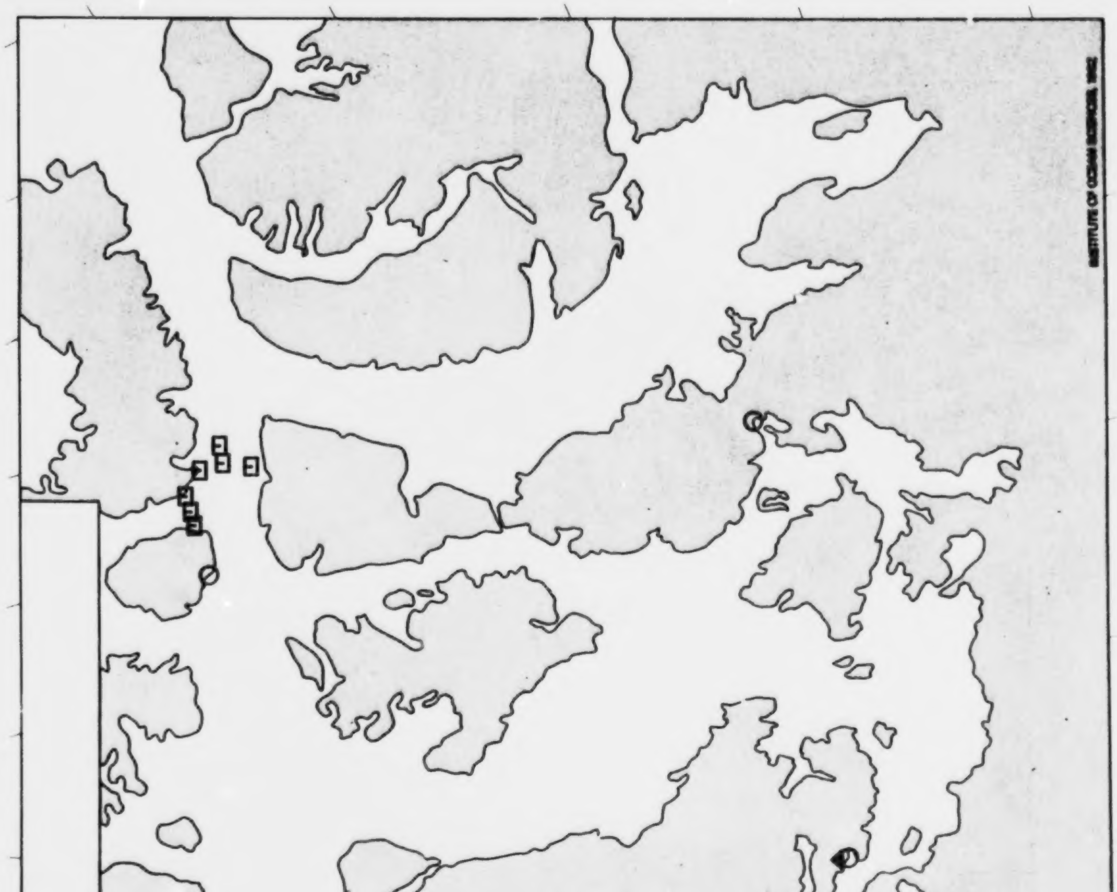
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982


1972
TS ▲ 71-0006
TS ⊡ 72-0011
WL ○ PERM. STN.
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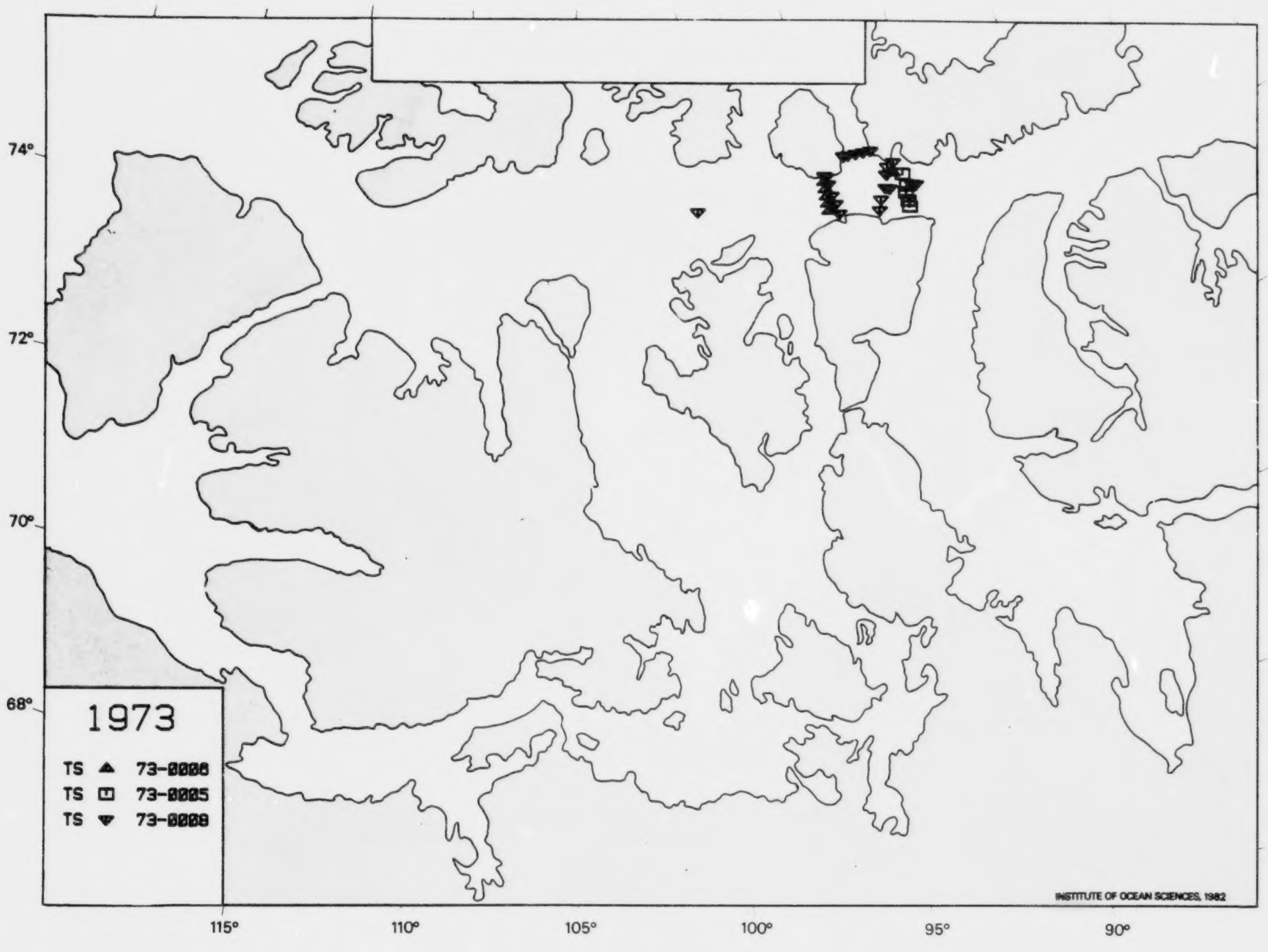
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982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TS ⊡ 73-0005
TS ▼ 73-0008
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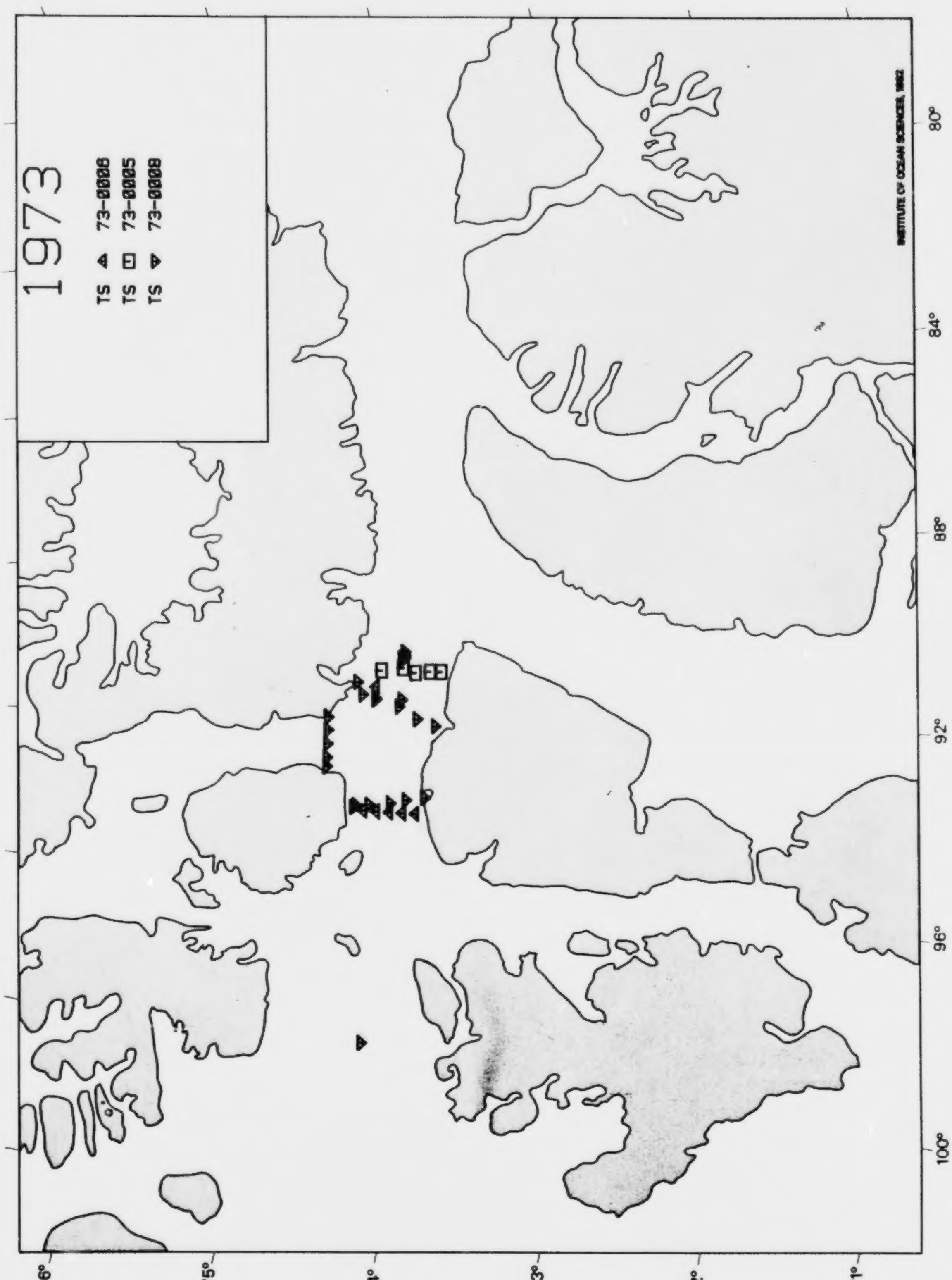
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982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INSTITUTE OF OCEAN SCIENCES, 1982
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92°
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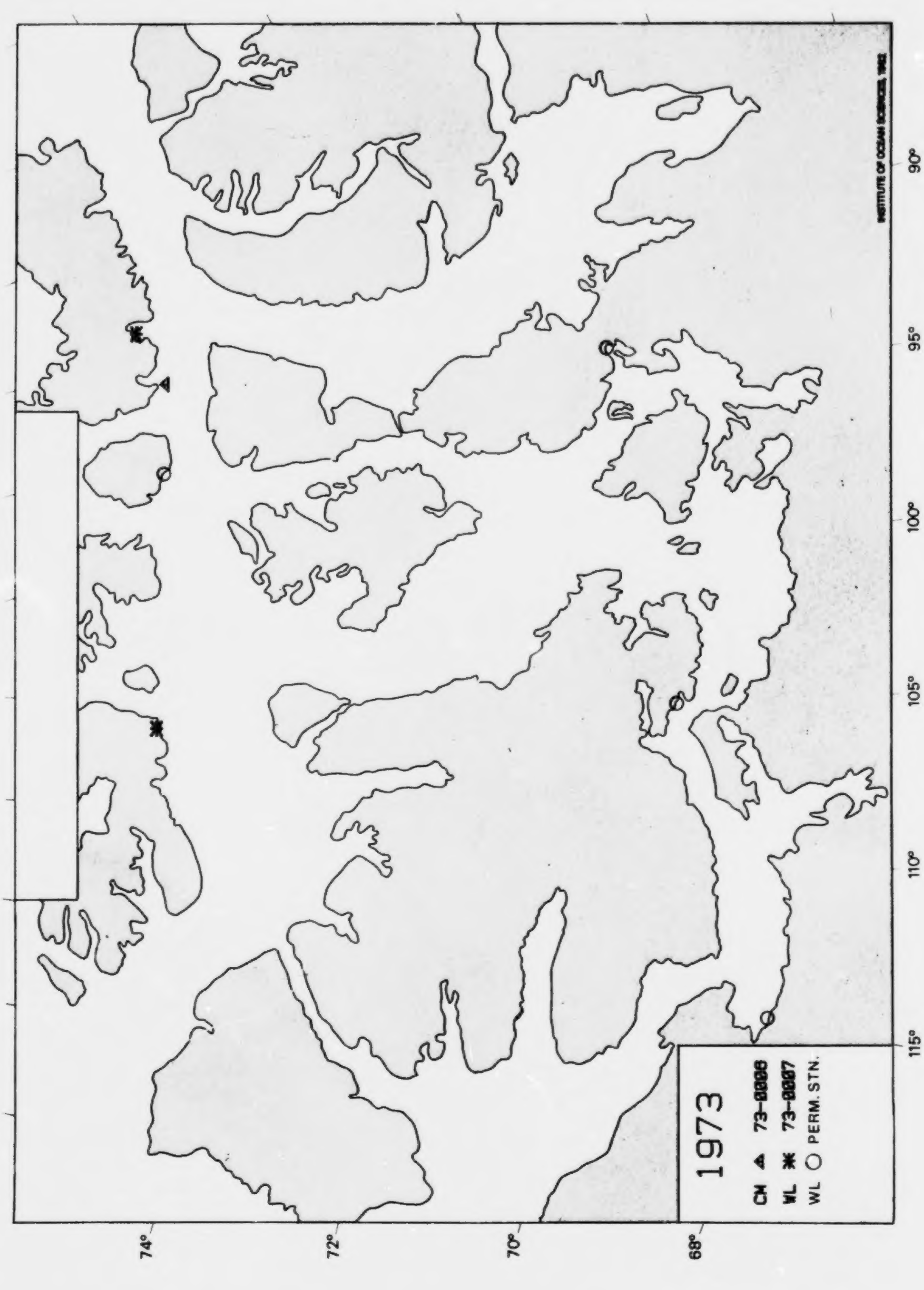
100°


1973
CM ▲ 73-0006
WL ✱ 73-0007
WL ○ PERM. STN.
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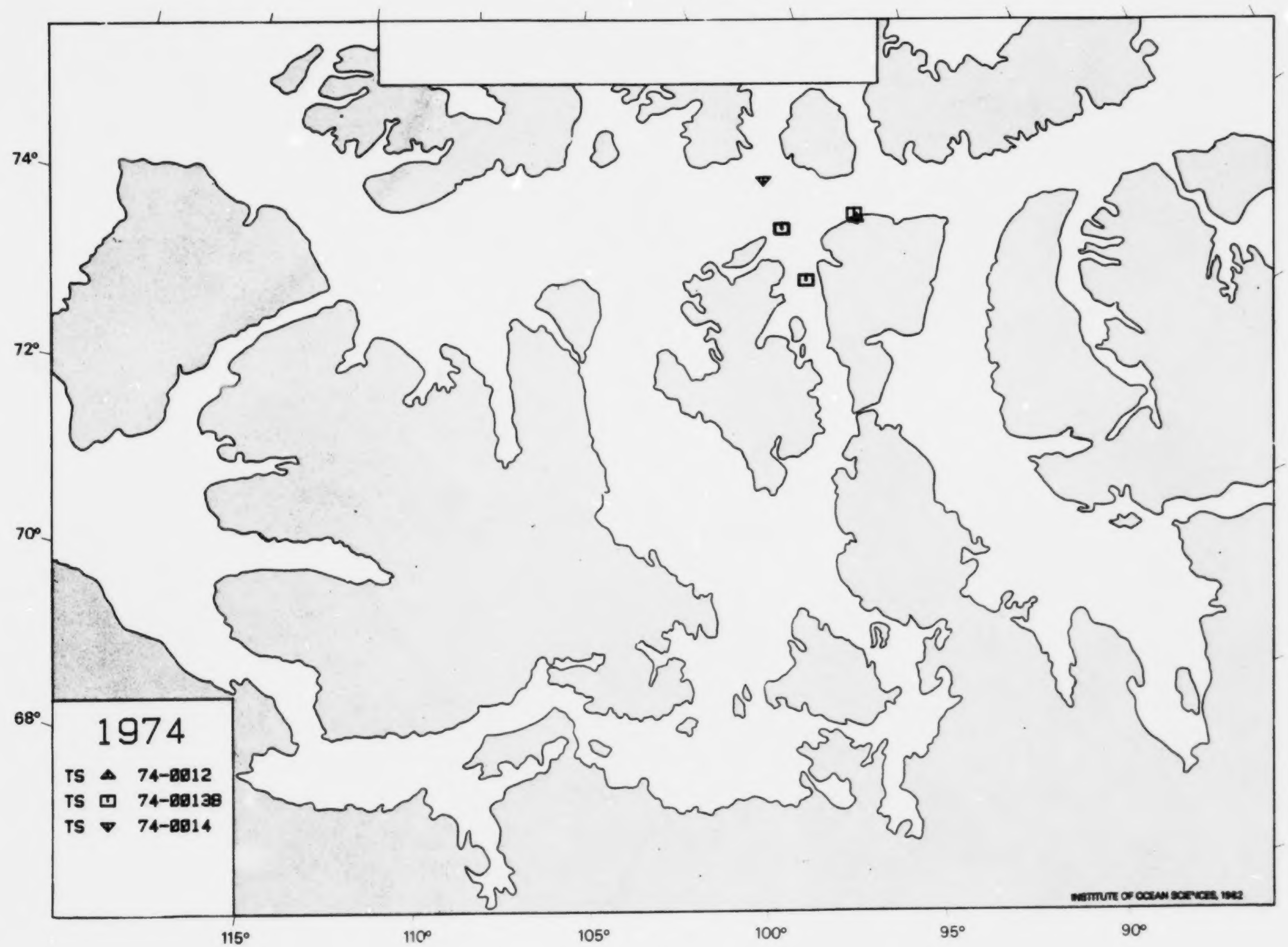
INSTITUTE OF OCEAN SCIENCES, 1982


1974
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TS ◻ 74-00138
TS ▼ 74-0014
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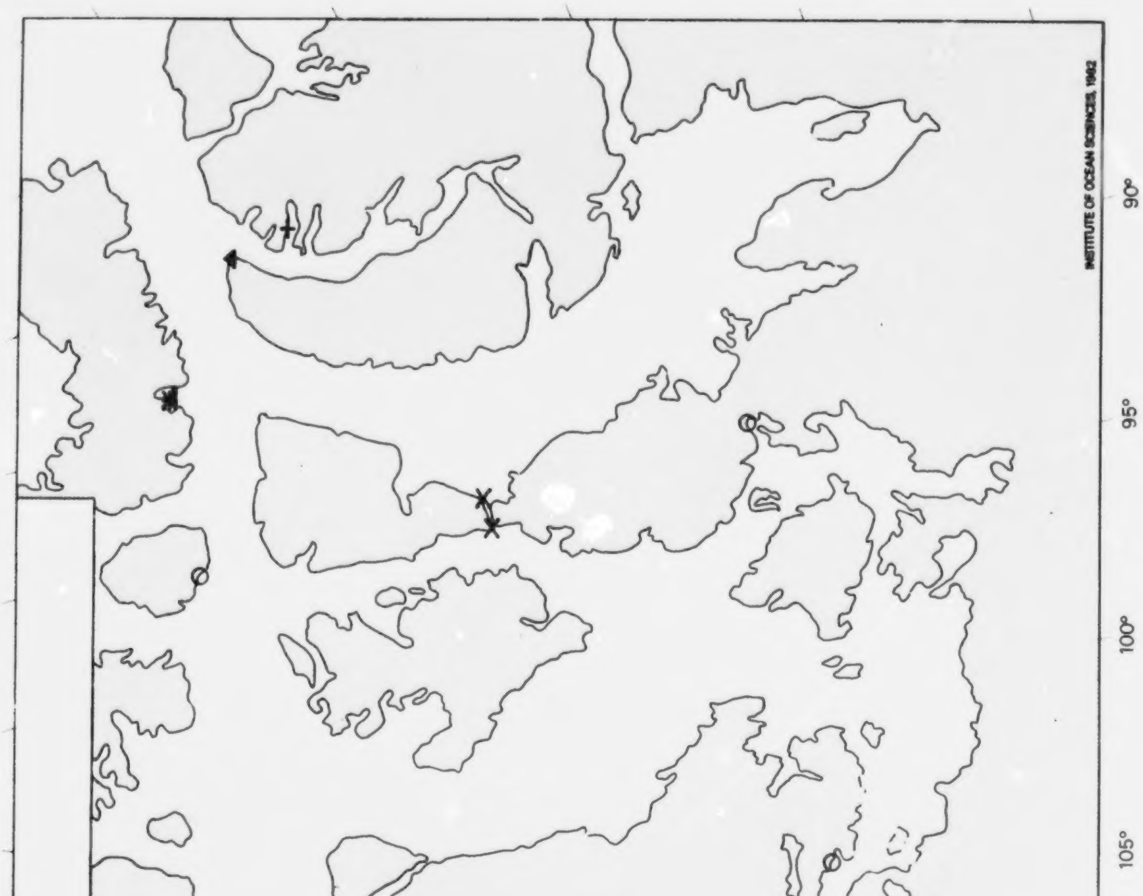
INSTITUTE OF OCEAN SCIENCES, 1982


1974
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WL ✱ 73-0007
WL + 74-0015
WL × 74-0017
WL ○ PERM. STN.
INSTITUTE OF OCEAN SCIENCES, 1982
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90°
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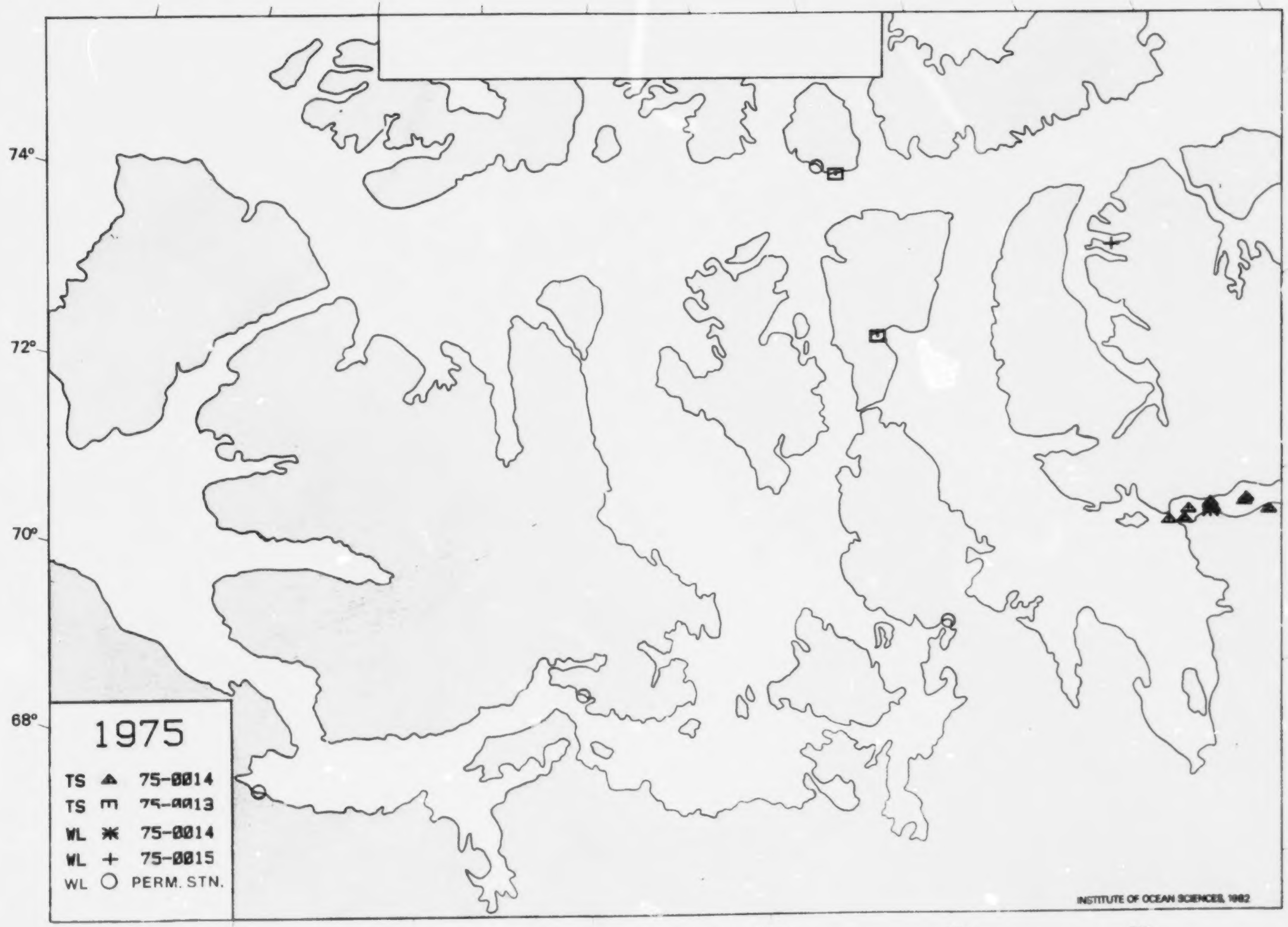
100°
105°
110°
115°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68°
115°
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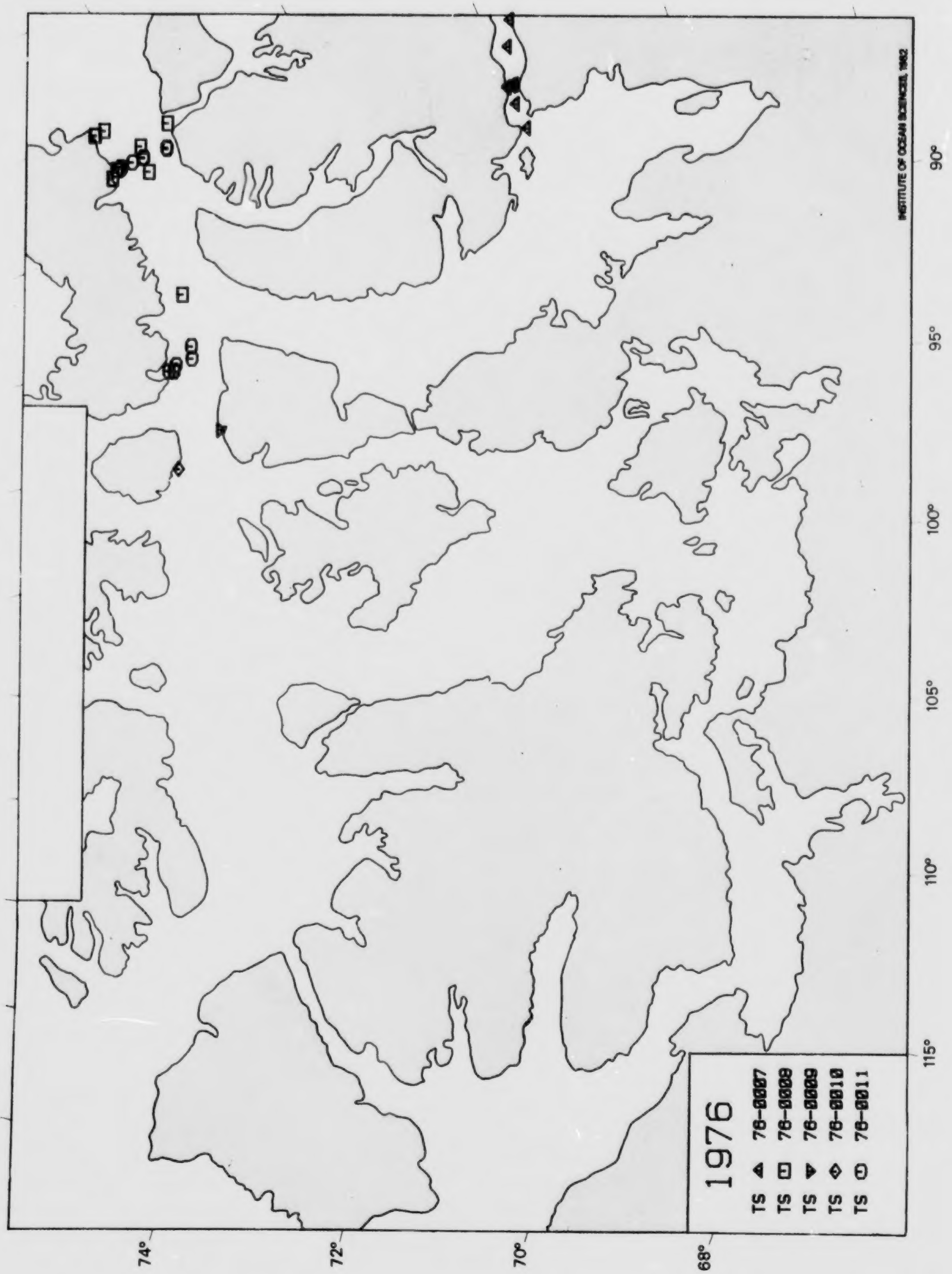
105°
100°
95°
90°
1975
TS ▲ 75-0014
TS ⊓ 75-0013
WL ✱ 75-0014
WL + 75-0015
WL ○ PERM. STN.
INSTITUTE OF OCEAN SCIENCES, 1982



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TS ◈ 76-0010
TS ʘ 76-0011
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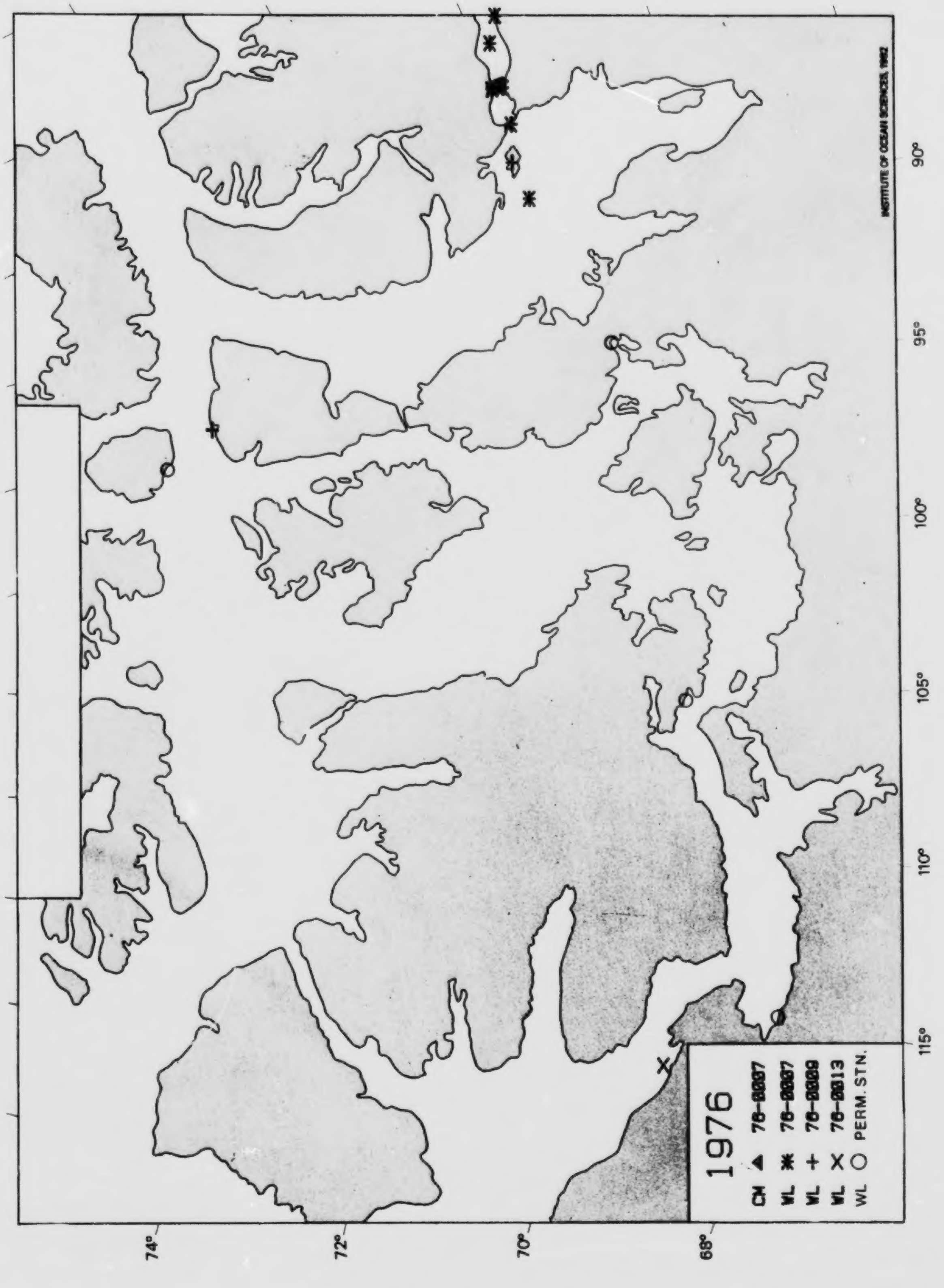
115°
INSTITUTE OF OCEAN SCIENCES, 1982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WL ✱ 76-0007
WL + 76-0009
WL × 76-0013
WL ○ PERM. STN.
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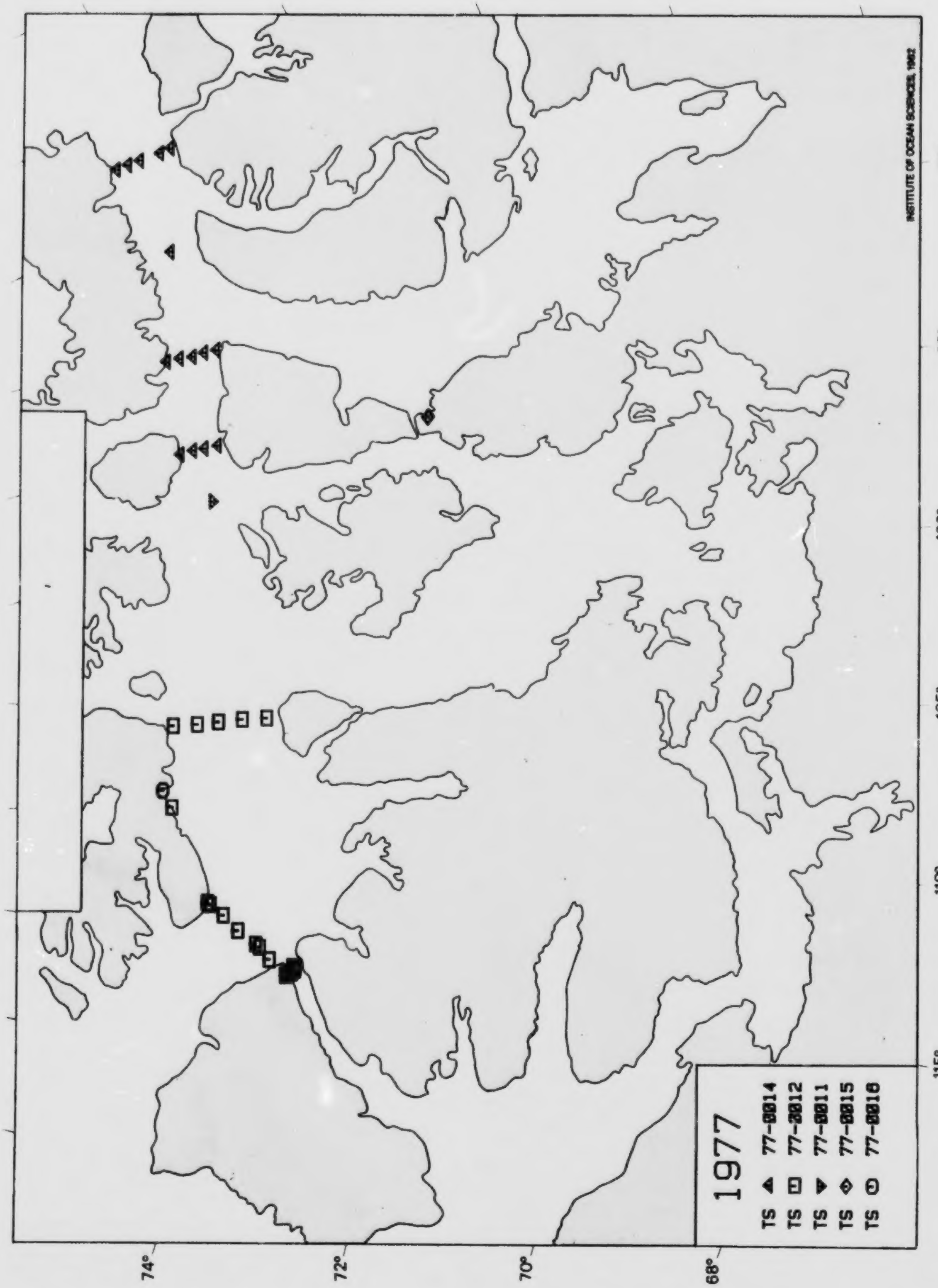
95°
100°
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982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TS ▲ 77-0014
TS ⊡ 77-0012
TS ▼ 77-0011
TS ◈ 77-0015
TS ⊙ 77-0010
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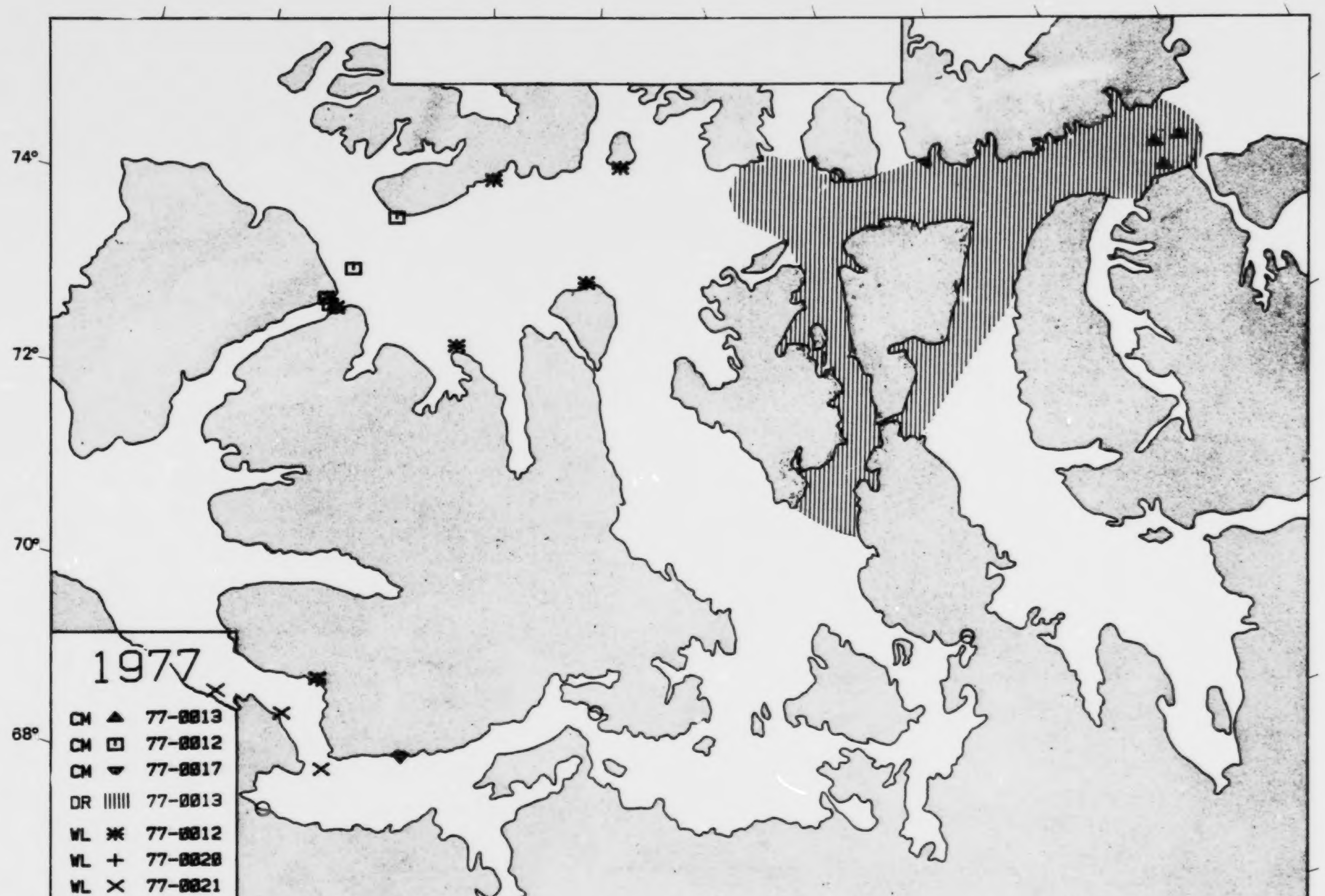
INSTITUTE OF OCEAN SCIENCES, 1982


1977
CM ▲ 77-0013
CM ⊡ 77-0012
CM ▼ 77-0017
DR ||||| 77-0013
WL ✳ 77-0012
WL + 77-0020
WL × 77-0021
WL ○ PERM. STN.
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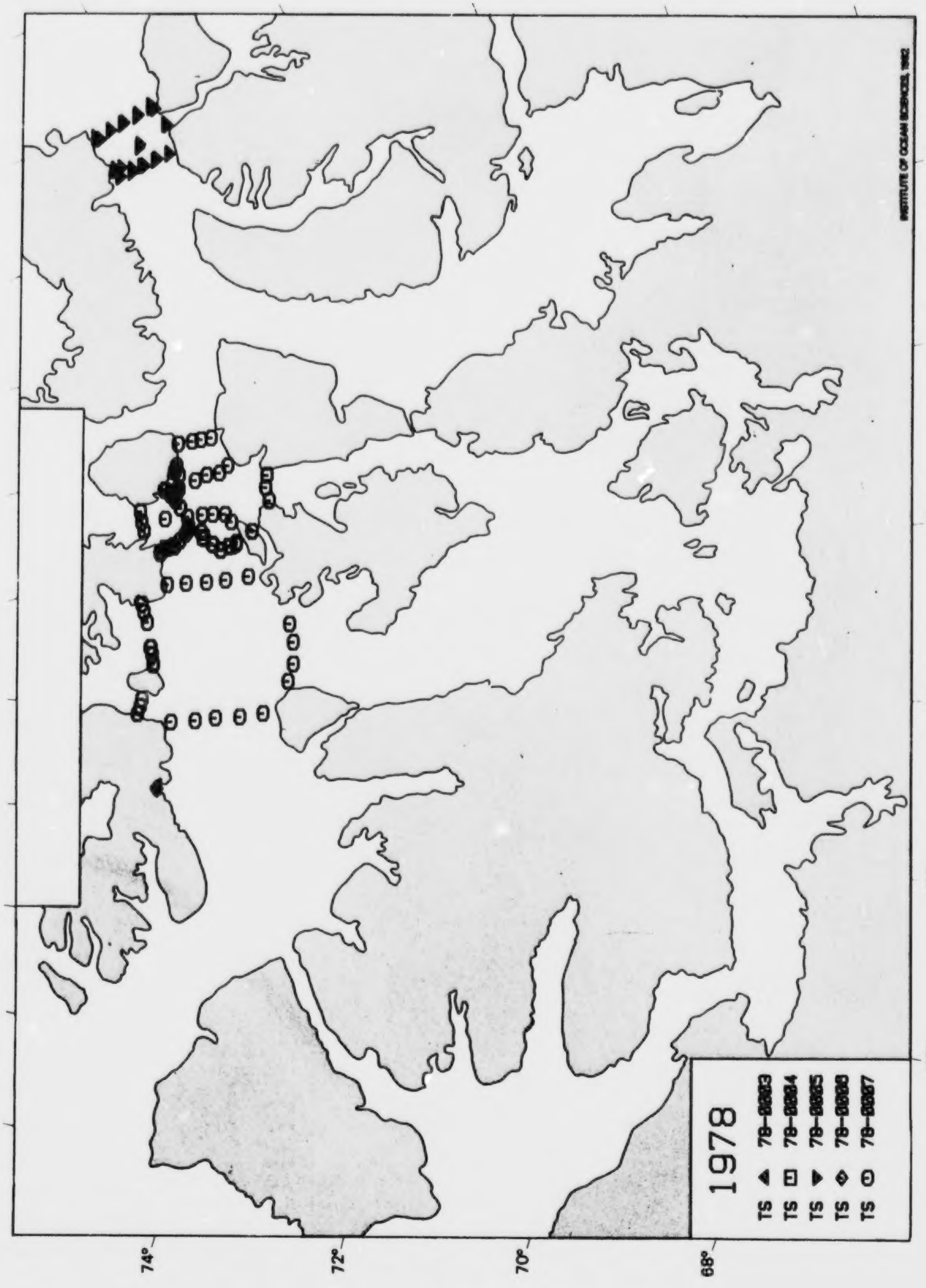
115°
110°
105°
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982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TS ▲ 78-0083
TS ⊡ 78-0084
TS ▼ 78-0085
TS ◈ 78-0086
TS ⊖ 78-0087
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95°
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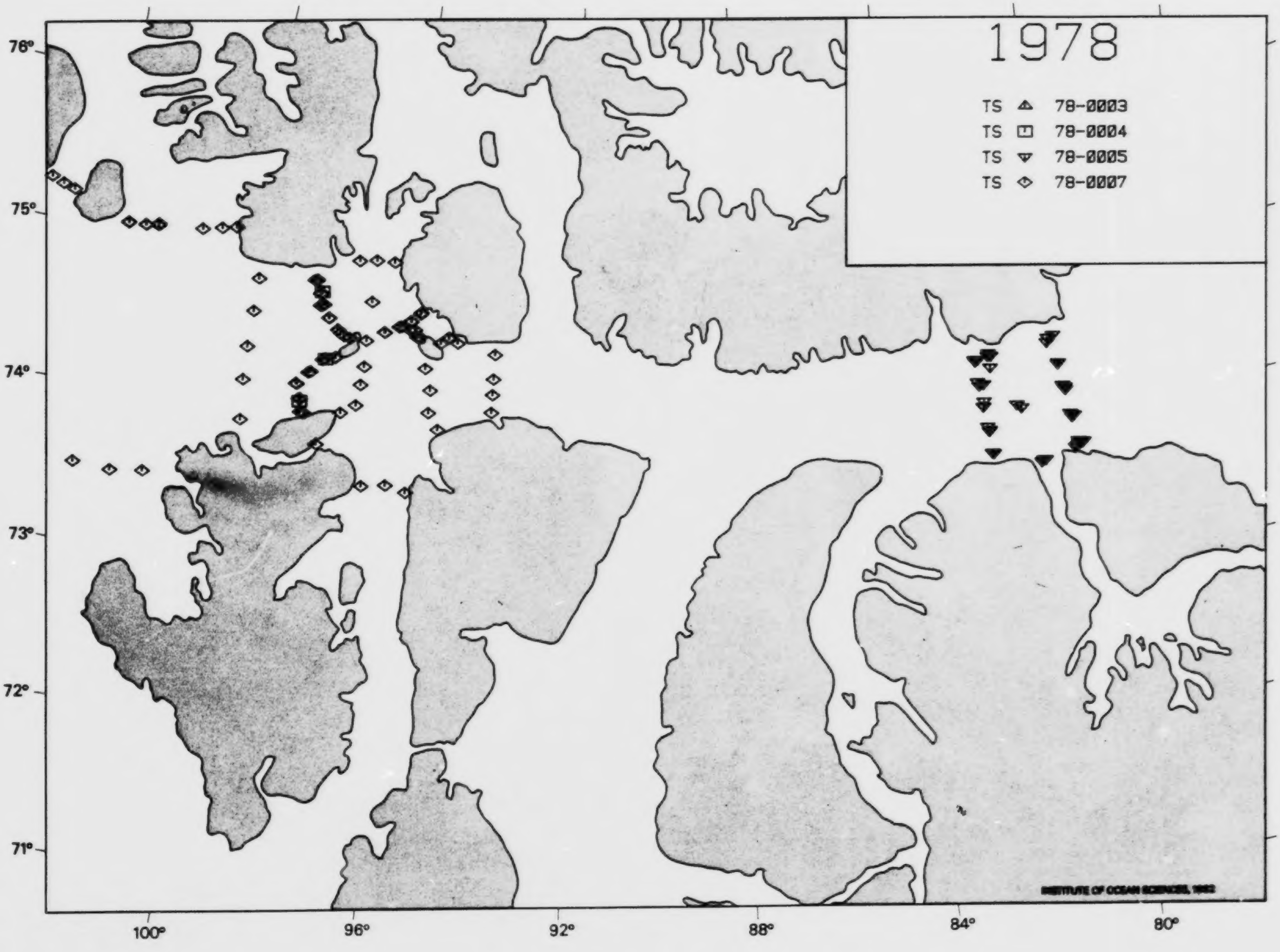
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982


1978
TS ▲ 78-0003
TS ⊡ 78-0004
TS ▼ 78-0005
TS ◇ 78-0007
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92°
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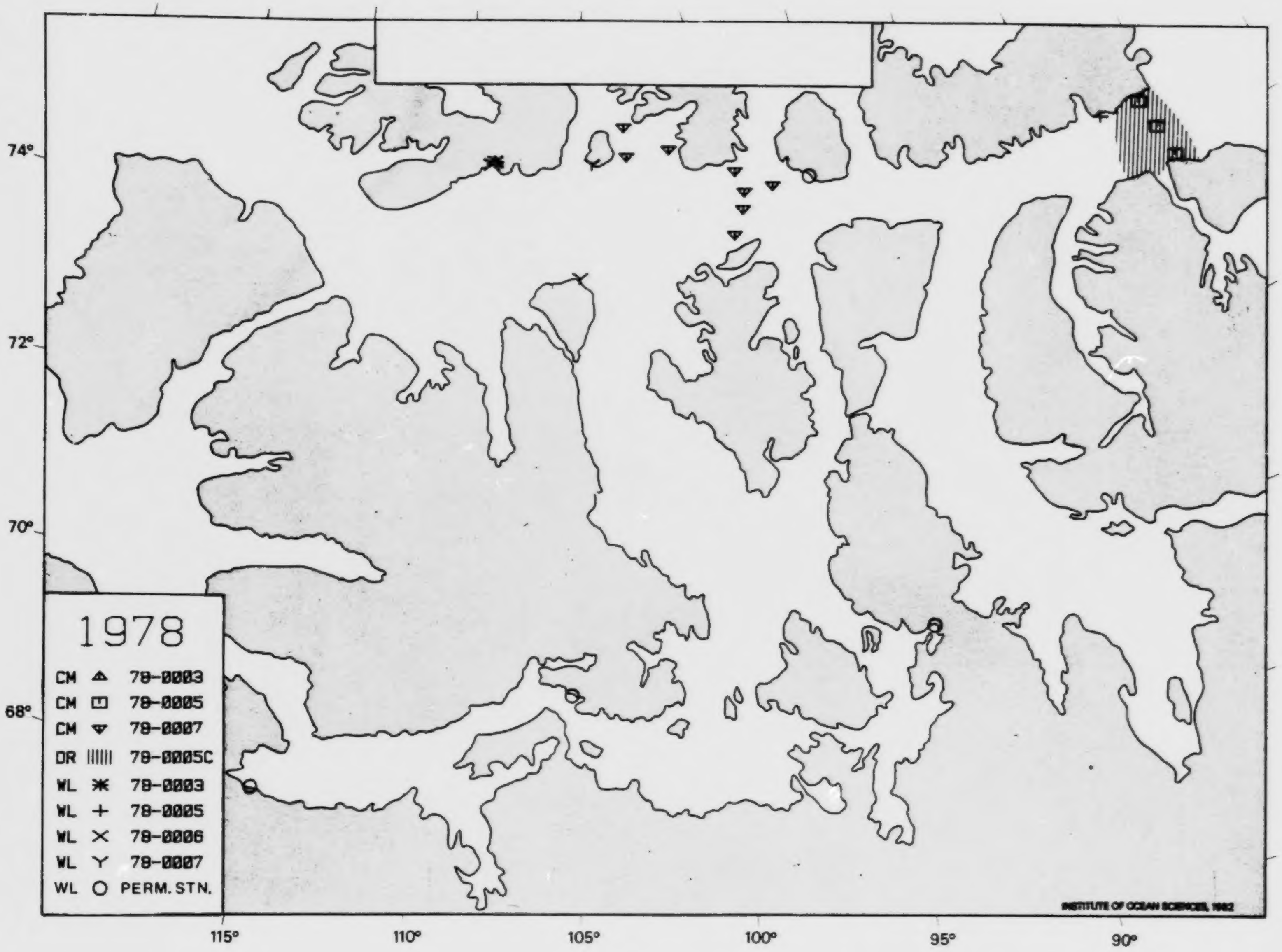
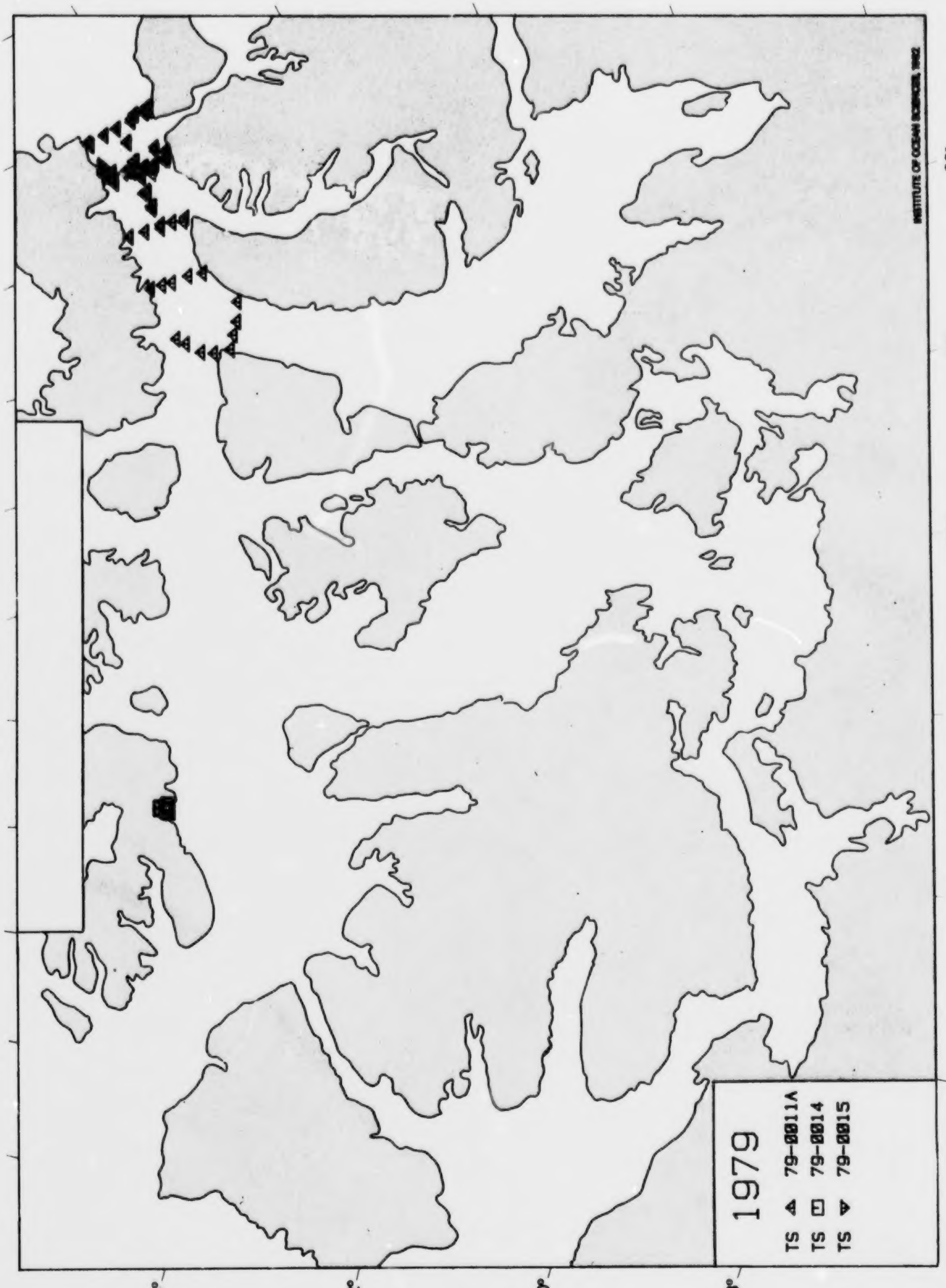
80°
INSTITUTE OF OCEAN SCIENCES, 1982


1978
CM ▲ 78-0003
CM ⊡ 78-0005
CM ▼ 78-0007
DR ||||||| 78-0005C
WL ✱ 78-0003
WL + 78-0005
WL × 78-0006
WL Y 78-0007
WL ○ PERM. STN.
74°
72°
70°
68°
115°
110°
105°
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982


1979
TS ▲ 79-0011A
TS ⊡ 79-0014
TS ▼ 79-0015
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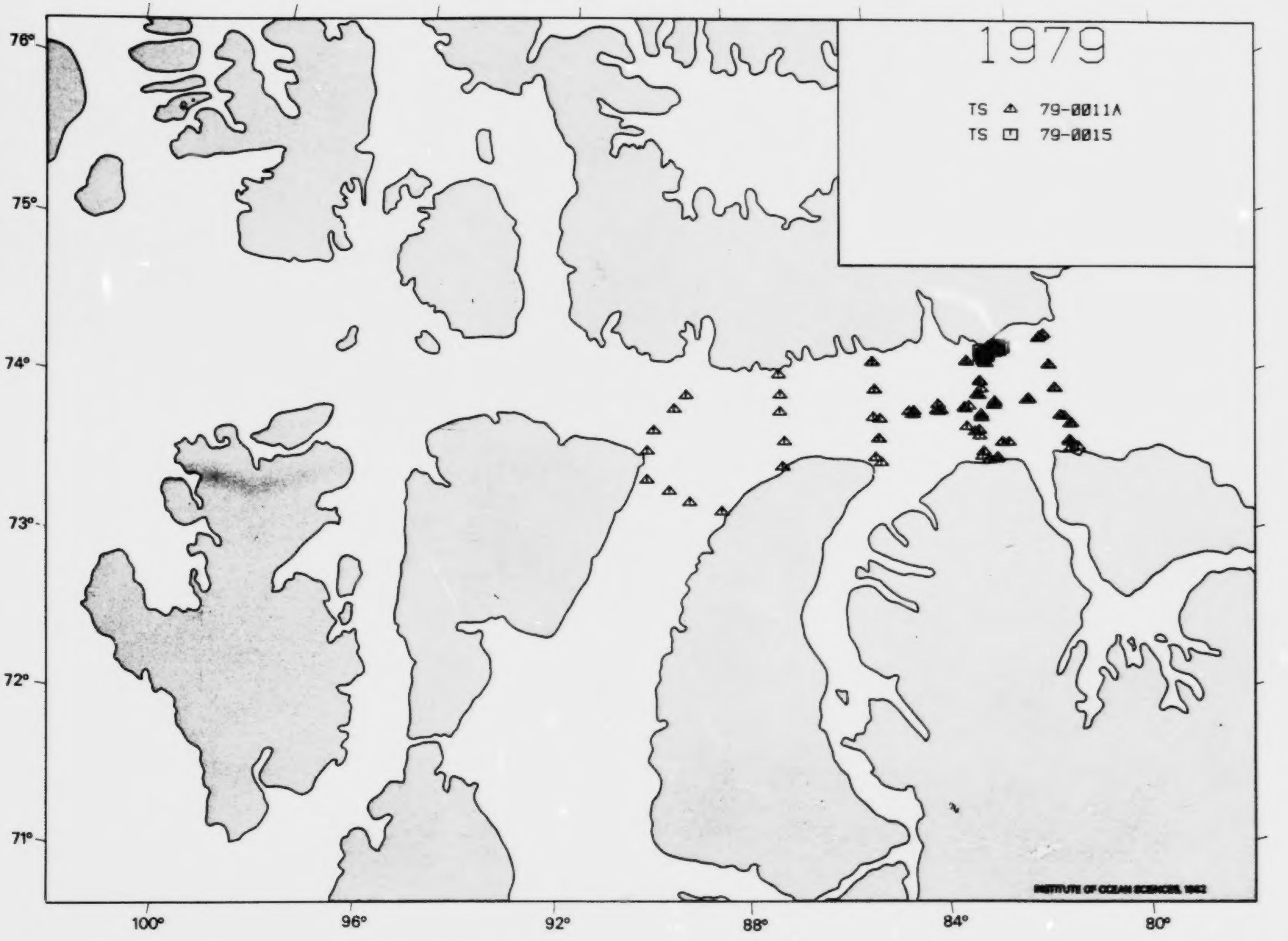
115°
INSTITUTE OF OCEAN SCIENCES, 1982


1979
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TS ⊡ 79-0015
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74°
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72°
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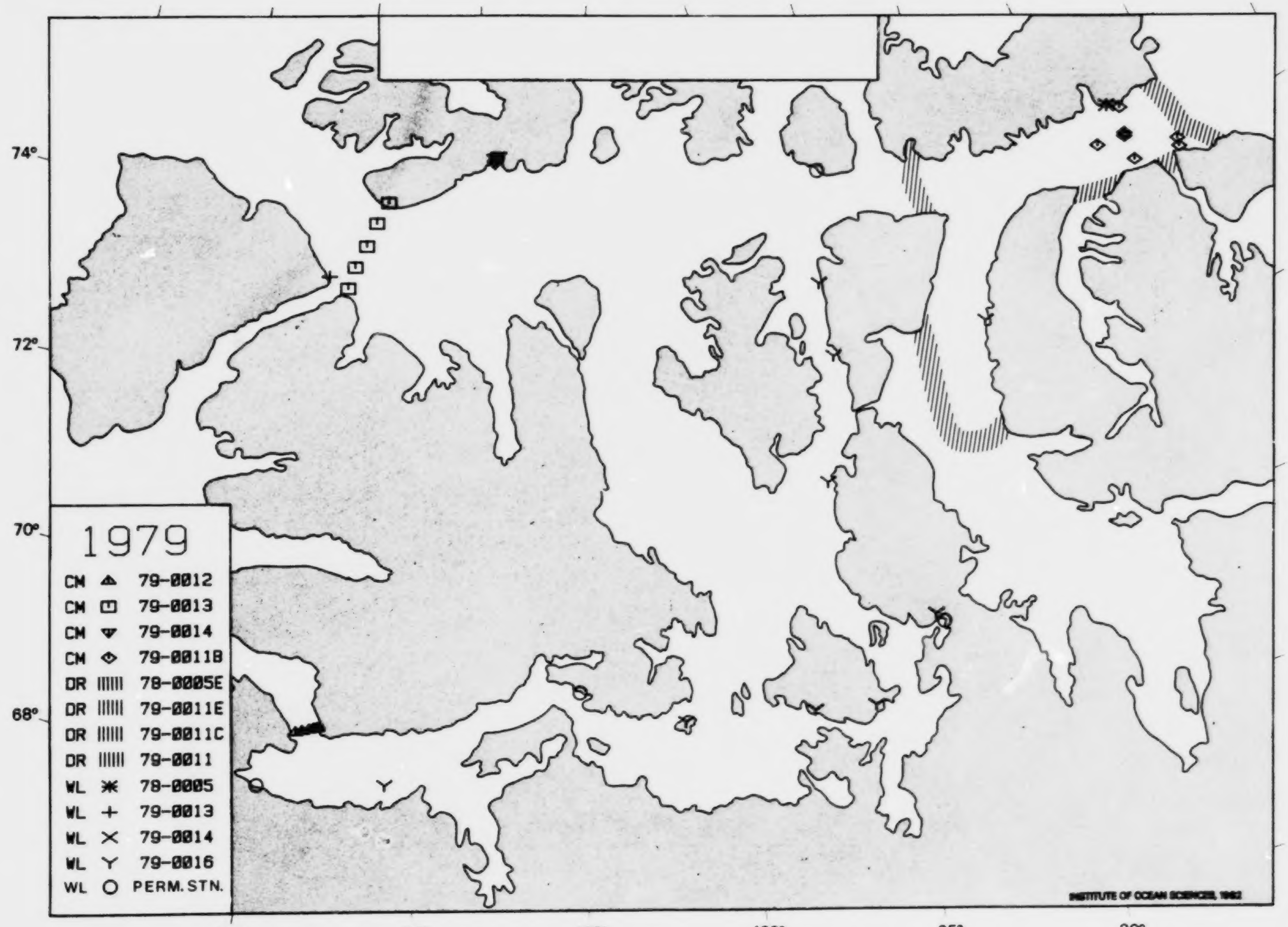
100°
96°
92°
88°
84°
80°
INSTITUTE OF OCEAN SCIENCES, 1982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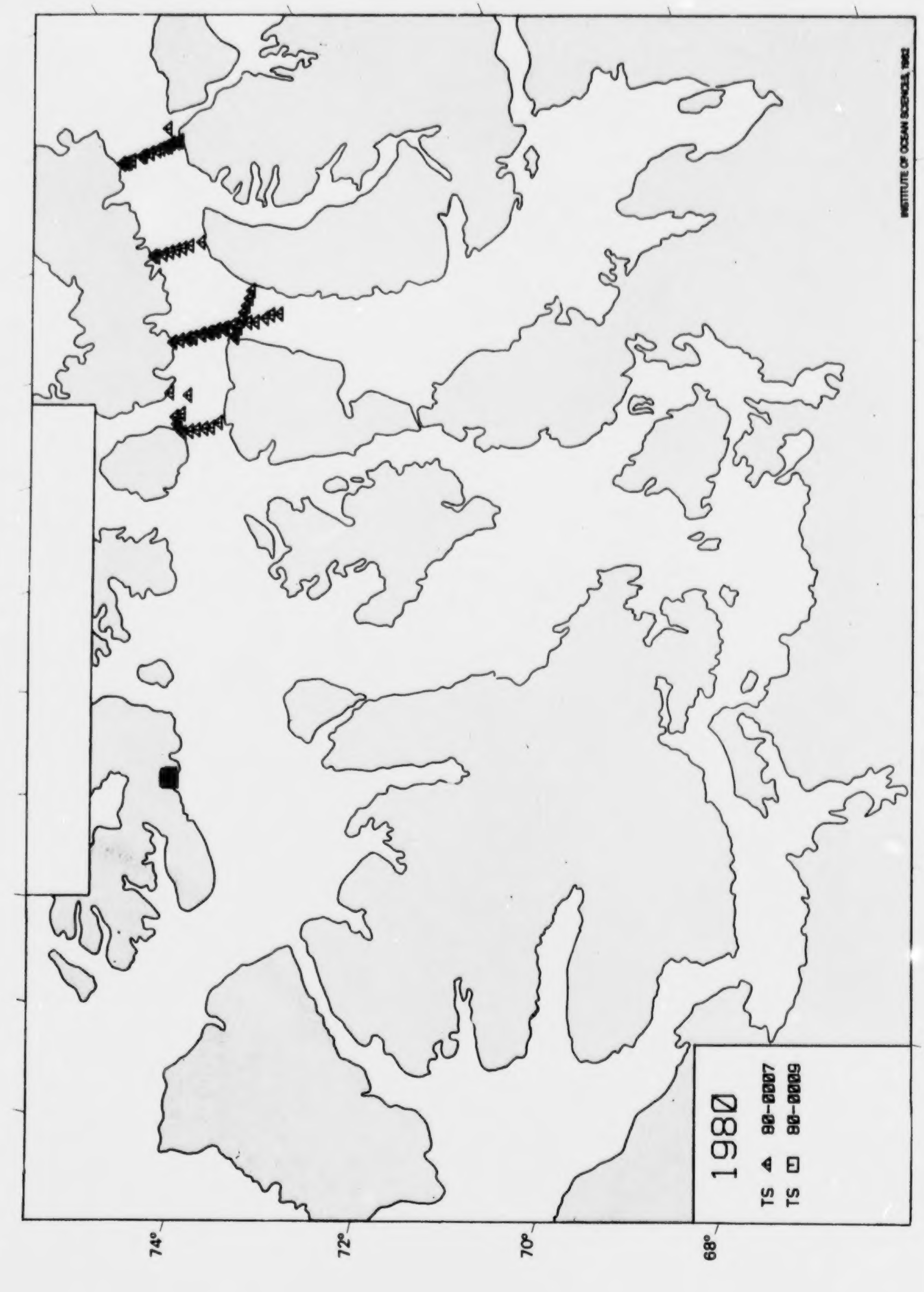
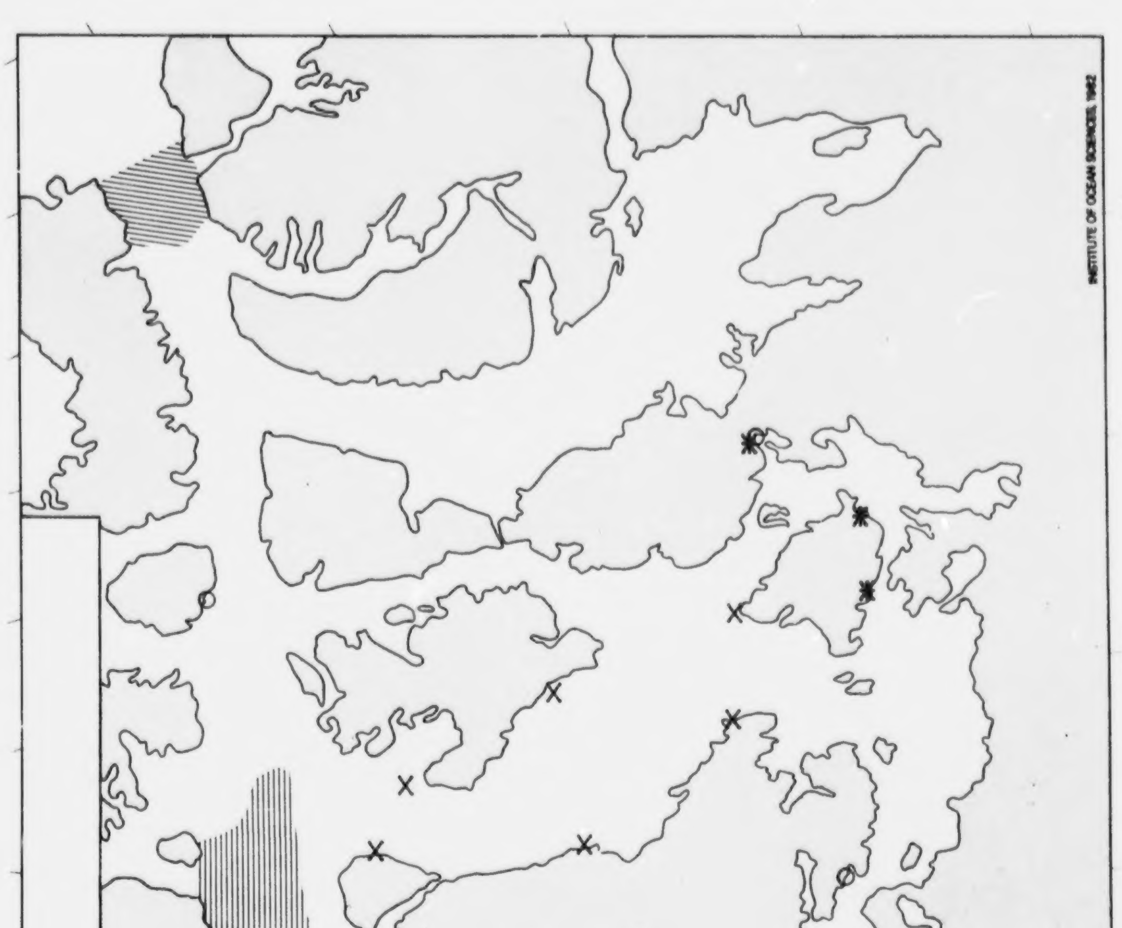
CM ▲ 79-0012
CM ⊡ 79-0013
CM ▼ 79-0014
CM ◈ 79-0011B
DR ||||||| 78-0005E
DR ||||||| 79-0011E
DR ||||||| 79-0011C
DR ||||||| 79-0011
WL ✱ 78-0005
WL + 79-0013
WL × 79-0014
WL Y 79-0016
WL ○ PERM. STN.
74°
72°
70°
68°
115°
110°
105°
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982


1980
TS ▲ 80-0007
TS □ 80-0009
INSTITUTE OF OCEAN SCIENCES, 1982
90°
95°
100°
105°
110°
115°
74°
72°
70°
68°


1980
CM ▲ 80-0009
DR |||| 80-0008
DR ≡ 80-0010
WL ✱ 79-0016
WL + 80-0009
WL × 80-0011
WL ○ PERM.STN.
74°
72°
70°
68°
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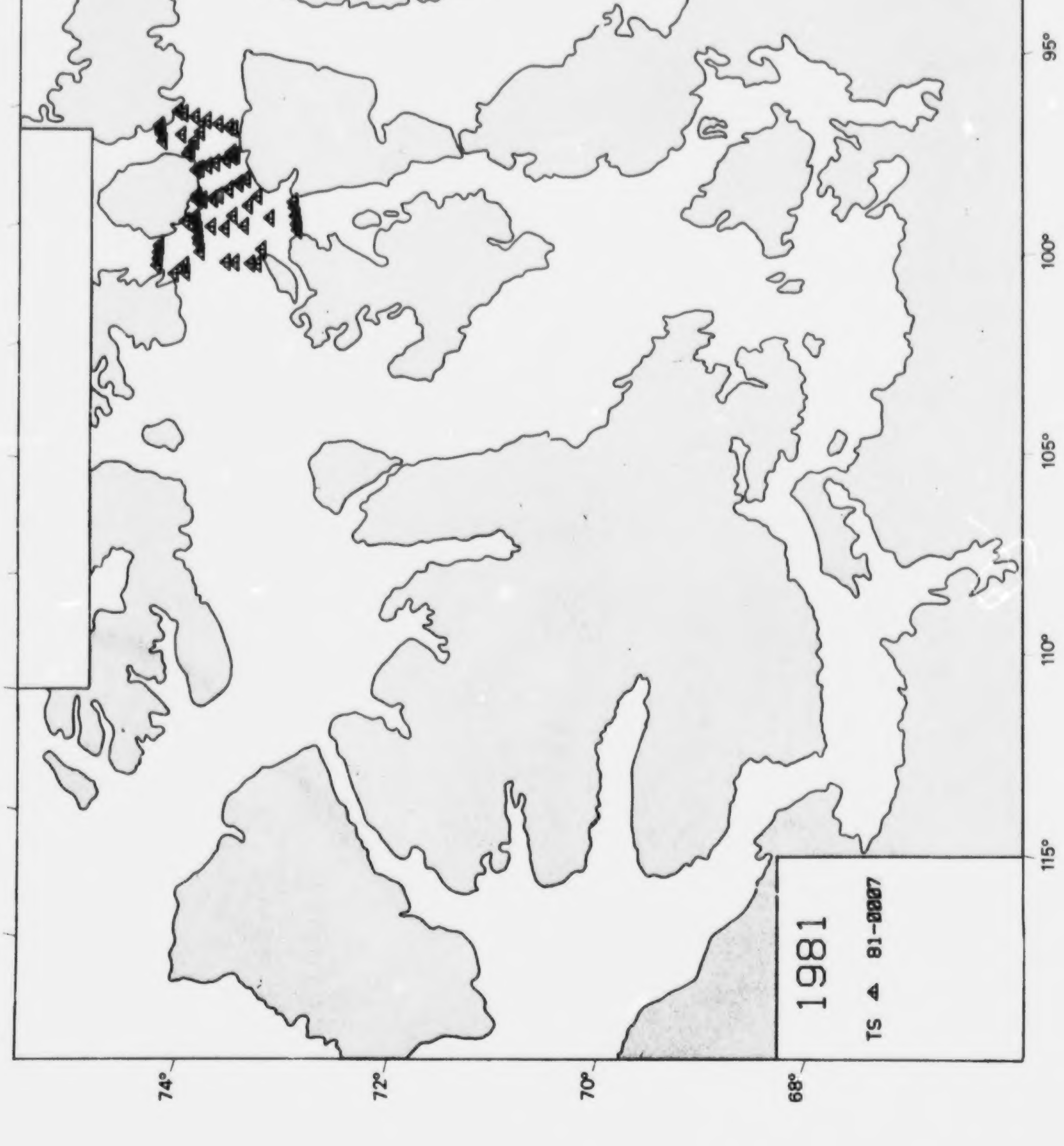
110°
105°
100°
95°
90°
INSTITUTE OF OCEAN SCIENCES, 1982


1981
TS ▲ 81-0007
INSTITUTE OF OCEAN SCIENCES, 1982
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90°
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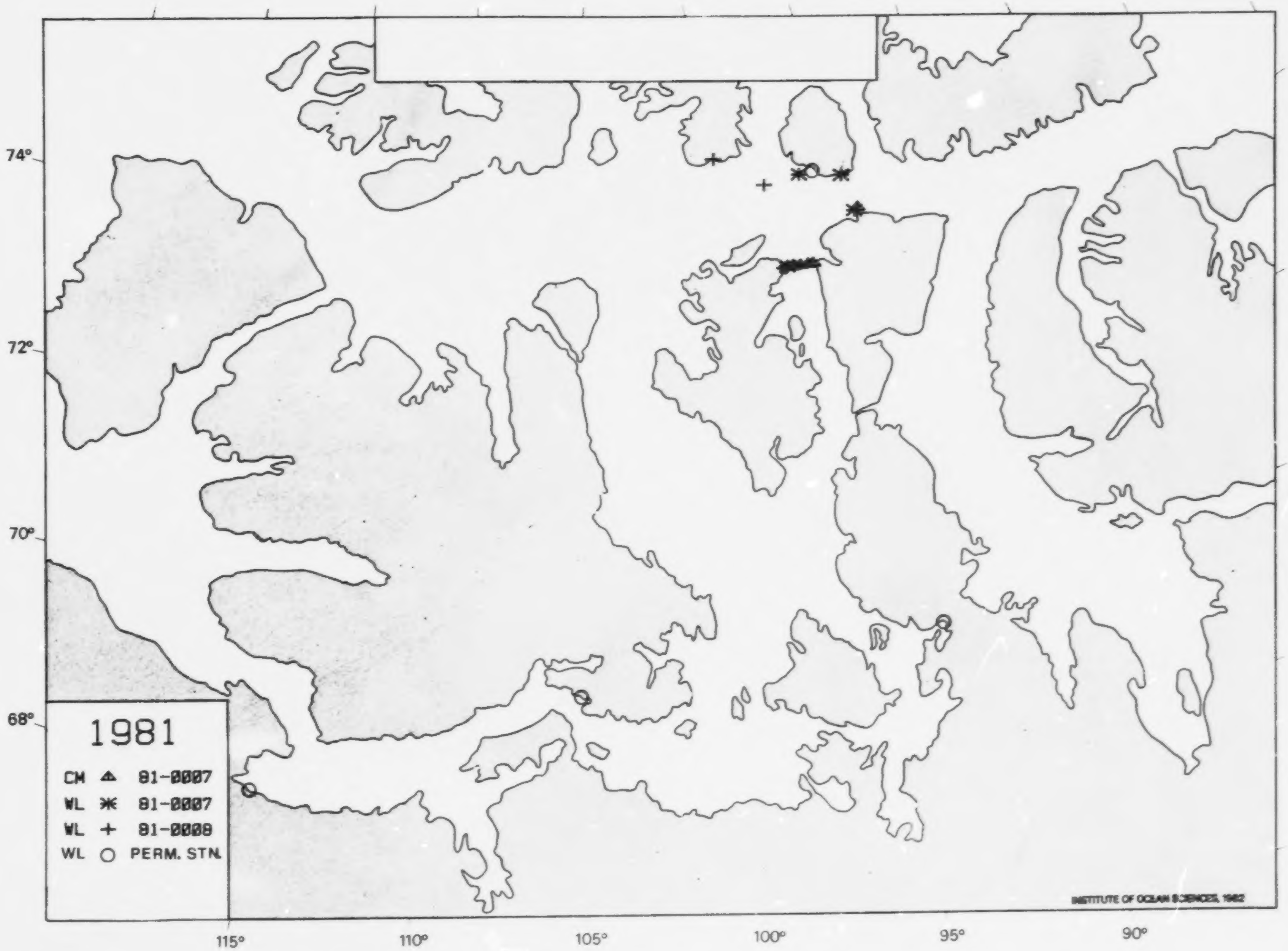
100°
105°
110°
115°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68°
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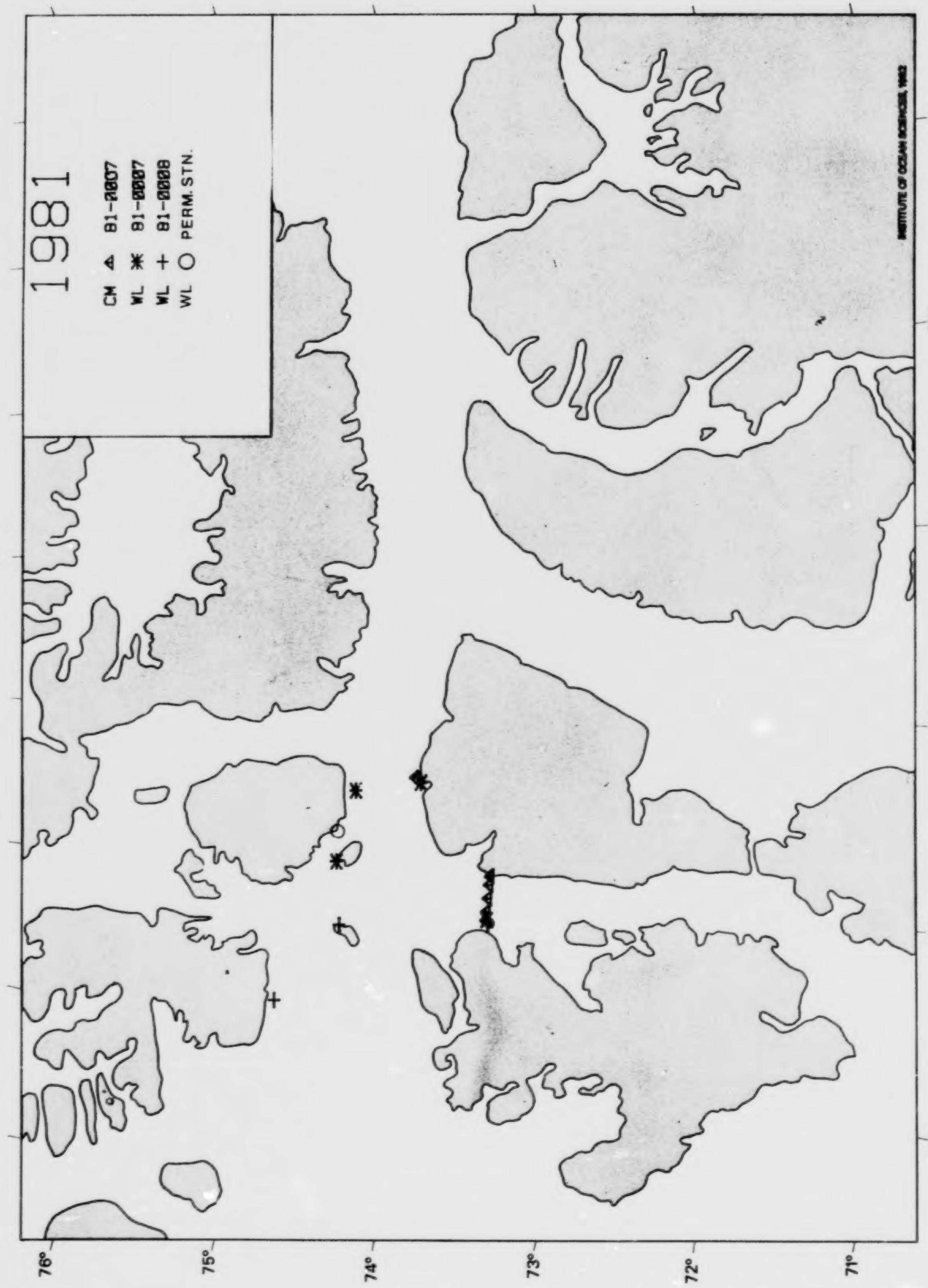
95°
90°
1981
CM ▲ 81-0007
WL ✳ 81-0007
WL + 81-0008
WL ○ PERM. STN.
INSTITUTE OF OCEAN SCIENCES, 1982


1981
CM ▲ 81-0007
WL ✳ 81-0007
WL + 81-0008
WL ○ PERM. STN.
INSTITUTE OF OCEAN SCIENCES, 1982
76°
75°
74°
73°
72°
71°
80°
84°
88°
92°
96°
100°

10. INDEXES

This section contains three indexes to the data sets. The first is a geographical index which provides a listing by sub-areas (Figure 2). All data sets with any measurements in a particular sub-area are listed by number under that sub-area. The second index classifies the data sets by measurement type, under the following headings:

Temperature and salinity-bottle : measurements at discrete points in the water column

Profiles of temperature and salinity : measurements made with a profiling instrument such as a CTD

Water levels, bottom pressure : measurements from shore-based tide stations or bottom pressure gauges

Eulerian currents : measurements of current velocity at a fixed point with a current meter

Lagrangian drift paths : the tracks of free-floating drifters

The third index lists references for each data set by number. The data set number appears at the left hand side of the page, with references listed to the right. The main references are listed, followed by other interpretive or analytical references, indented with respect to the main references. The list of interpretive or analytical references may not be complete.

10.1 GEOGRAPHICAL

M'Clure Strait

53-0003
54-0002
54-0003
61-0005
62-0005B
62-0006
66-0006
79-0013

Prince of Wales Strait

15-0001
53-0001
54-0002
54-0003
62-0006
70-0002
70-0007

Dolphin & Union Strait

15-0001
15-0002
56-0004
59-0002
76-0013
77-0020
77-0021
79-0012

Viscount Melville Sound

08-0001
48-0002
54-0001
54-0002
54-0003
64-0004
67-0002
68-0001
70-0002
71-0008
73-0007
77-0012
80-0010
80-0011

Coronation Gulf

35-0001
37-0001
54-0004
56-0001
57-0001
64-0001
65-0002
71-0007
71-0017

Bridport Inlet

77-0016
78-0003
78-0006
79-0014
80-0009

Cambridge Bay

64-0001
65-0002
65-0004
68-0002
71-0006

Dease Strait

61-0006
61-0007
62-0005D
66-0005
67-0001

Peel Sound

57-0003
57-0005
65-0003
79-0016

Rae Strait

55-0003
56-0001
57-0001
69-0003
79-0016

Queen Maud Gulf

56-0001
57-0001

Barrow Strait

48-0001
49-0001
50-0002
52-0003
54-0001
54-0005
56-0002
56-0003
57-0003
57-0004
59-0003
60-0005
61-0004
61-0007
62-0005A
62-0006
62-0008
67-0002
70-0002
72-0011
73-0005
73-0006
73-0007
73-0008
74-0012
74-0013B
74-0014
75-0013
76-0009
76-0010
76-0011
76-0012
77-0011
77-0014
78-0004
78-0007
81-0007
81-0008

Admiralty Inlet

10-0001
54-0004
61-0007
74-0015
75-0015

Prince Regent Inlet

56-0003
57-0003
57-0005
60-0005
61-0004
62-0005C
62-0006
63-0004
66-0003
74-0017
75-0013
77-0015

Gulf of Boothia

48-0001
56-0003
57-0003
60-0005
61-0003
62-0006

Lancaster Sound

28-0001
46-0001
51-0003
53-0002
54-0001
56-0003
57-0003
60-0004
60-0006
61-0004
61-0008
62-0007
66-0004
67-0002
68-0001
70-0006
73-0005
74-0013A
76-0008
76-0011
77-0013
77-0014
77-0018
78-0005
79-0011
79-0015
80-0007
80-0008

Fury & Hecla Strait

48-0001
60-0005
60-0006
60-0008
61-0003
75-0014
76-0007
76-0012

10.2 MEASUREMENT TYPE

Temperature Only

51-0003
53-0002
61-0008
66-0003

Lagrangian Drifters

74-0012
77-0018
78-0005C
79-0011C
80-0008
80-0010

Temperature & Salinity Bottle

28-0001
35-0001
37-0001
46-0001
48-0001
50-0002
52-0003
53-0001
54-0001
54-0002
54-0003
54-0004
56-0001
56-0002
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62-0005
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62-0007
63-0004
64-0001
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65-0002
65-0003
66-0004
66-0005
66-0006?
67-0001?
68-0001
70-0002
72-0011
73-0005
74-0014
75-0013
75-0014

Temperature & Salinity Profiles

65-0004
67-0002
68-0002
70-0006
71-0006
73-0006
73-0008
74-0012
74-0013B
74-0015?
76-0007
76-0009
76-0011
77-0011
77-0012
77-0014
77-0015
77-0016
78-0003
78-0004
78-0005
78-0006
78-0007
79-0011
79-0014
79-0015
80-0007
80-0009
81-0007

Water Level & Pressure

08-0001
10-0001
15-0001
15-0002
48-0002
49-0001
53-0003
54-0005
55-0003
56-0004
57-0004
57-0005
59-0004
60-0006
61-0006
61-0007
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74-0017
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75-0015
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76-0009
76-0012
76-0013
77-0012
77-0020
77-0021
78-0003
78-0005F
78-0006
78-0007
79-0013
79-0014
79-0016
80-0009
80-0011
81-0007
81-0008

Eulerian Currents

15-0001?
56-0001
57-0001
60-0008
73-0006
74-0013A
74-0015
76-0007
77-0011
77-0012
77-0013
77-0017
78-0003
78-0004
78-0005B
78-0005D
78-0007
79-0011B
79-0011D
79-0012
79-0013
79-0014
80-0007
80-0009
81-0007

10.3 REFERENCES BY DATA SET NUMBER

15-0001 Dawson, W.B., 1920. Tidal investigations and results. Can. Arctic Exp. 1913-1918. Rep. Vol. 10: 1-13. Plankton, hydrography, tides (Pt.C). King's Printer, Ottawa.

28-0001 Riis-Carstensen, E., 1936. The *Godthaab* expedition 1928. The hydrographic work and material. *Meddelelser* om Gronland 78: 1-101.

Kiilerich, A.B., 1939. A theoretical treatment of the hydrographic observational material, the *Godthaab* Expedition. Meddelelser om Gronland 78: 1-148.

35-0001 Tully, J.P., 1952. Oceanographic data of the western Canadian Arctic region, 1935-37. J. Fish. Res. Board Can. 8: 378-382.

37-0001 Tully, J.P., 1952. Oceanographic data of the western Canadian Arctic region, 1935-37. J. Fish. Res. Board Can. 8: 378-382.

46-0001 Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force 80. Arctic Operation Summer 1948. Woods Hole Oceanographic Institution, Woods Hole, Mass. Ref. No. 49-4. 67pp.

48-0001 Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force 80. Arctic Operation Summer 1948. Woods Hole Oceanographic Institution, Woods Hole, Mass. Ref. No. 49-4. 67pp.

48-0002 U.S. Coast and Geodetic Survey

50-0002 U.S. Navy Hydrographic Office, 1954a. Oceanographic observations, Arctic waters - USS *Edisto* and USS *Atka*. Washington, D.C. (see NTIS in Appendix 3). Pub. 618-A. 315pp.

50-0003 U.S. Navy Hydrographic Office, 1954a. Oceanographic observations, Arctic waters - USS *Edisto* and USS *Atka*. Washington, D.C. (see NTIS in Appendix 3). Pub. 618-A. 315pp.

53-0001 U.S. Navy Hydrographic Office, 1954b. Oceanographic observations - USS *Burton Island* 1950-53. Washington, D.C. (see NTIS in Appendix 3). Pub. 618-C. 309 pp., 6 charts.

54-0001 Bailey, W.B., 1955. Oceanographic reconnaissance in the Canadian Archipelago. Fish. Res. Board Can. Mss Rept. Biol. Sta. No. 603. 145 pp.

Bailey, W.B., 1957. Oceanographic features in the Canadian Archipelago. J. Fish. Res. Board Can. 14: 731-769.

54-0002 U.S. Navy Hydrographic Office, 1956. Oceanographic survey results, Beaufort Sea area - Summer 1954. USS *Burton Island* (AGB-1) and USCGC *Northwind* (WAGB-282). Washington, D.C. (see NTIS in Appendix 3). H.O. Pub. 15791. 104 pp.

54-0003 U.S. Navy Hydrographic Office, 1956. Oceanographic survey results, Beaufort Sea area - Summer 1954. USS Burton Island (AGB-1) and USCGC Northwind (WAGB-282). Washington, D.C. (see NTIS in Appendix 3). H.O. Pub. 15791. 104 pp.

54 0004 Ellis, D.V., 1956. Some temperature and salinity records from the Canadian Arctic during 1954 and 1955. J. Fish. Res. Board Can. 13: 591-598.

56-0001 U.S. Navy Hydrographic Office, 1960. Oceanographic observations, Arctic Waters. Task Force 5 and 6. Summer-Autumn 1956. Tech. Rep. No. 58. October 1960. USS Resolute, USS Eldorada, USS Atka, USCGC Eastwind. Washington, D.C. (see NTIS in Appendix 3). Tech. Rep. No. 58. October 1960. 89 pp., illustrations.

56-0002 Apollonio, S., 1957. Plankton productivity studies in Allen Bay Cornwallis Island, N.W.T. 1956. Woods Hole Oceanographic Institute. Unpubl. man. 8pp.

56-0003 Collin, A.E., 1958. An oceanographic study of Prince Regent Inlet, the Gulf of Boothia and adjacent waters. Fish. Res. Bd. Can., Man. Rep. Ser. (Limnol. & Oceanog.) No. 13. 66pp.

57-0001 U.S. Navy Hydrographic Office, 1959. Oceanographic observations, Arctic Waters. Task Force 5 and 6. Summer-Autumn 1957. Tech. Rep. No. 59. November 1959. USCGC Eastwind, USCGC Westwind, USCGC Spar, USS Atka, USS Eldorado. Washington, D.C. (see NTIS in Appendix 3). Tech. Rep. No. 59. November 1959. 145 pp., illustrations.

57-0003 Collin, A.E., 1962. On the oceanography of Lancaster Sound. Ph.D. Thesis, McGill University, Montreal. 204 pp.

57-0004 Stephenson, F., 1977. An assessment of the permanent water level stations in the Canadian Arctic. Lighthouse 16: 21-25.

57-0005 Data available from the Institute of Ocean Sciences, Patricia Bay, Sidney, B.C.

59-0002 U.S. Navy Oceanographic Office, 1959. Oceanographic data report, Arctic, 1959. Washington, D.C. (see NTIS in Appendix 3). Inf. Man. Rep. No. 0-43-63. 245 pp., maps.

59-0003 Milne, A.R., 1960. Shallow water under-ice acoustics in Barrow Strait. J.Acoust. Soc. Am. 32: 1007-1016.

60-0004 Canadian Oceanographic Data Center, 1964. Eastern Arctic, 1960. Data Record Series No. 18. 204 pp. plus illustrations.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

60-0005 Canadian Oceanographic Data Center, 1964. Eastern Arctic, 1960. Data Record Series No. 18. 204 pp. plus illustrations

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

60-0008 Barber, F.G., 1965. Current observations in Fury and Hecla Strait. J.Fish. Res. Board Can. 22: 225-229.

61-0003 Canadian Oceanographic Data Center, 1966. Arctic, 1961. August 2-October 12, 1961 Data Rec. Ser. No. 12. 332 pp. plus illustrations.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

61-0004 Canadian Oceanographic Data Center, 1966. Arctic, 1961. August 2-October 12, 1961 Data Rec. Ser. No. 12. 332 pp. plus illustrations.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

Muench, R.D. 1971. The physical oceanography of the northern Baffin Bay region. Arctic Inst. of N.A., Washington, D.C., Baffin Bay-North Water Project. Sc. Rep. No. 1. 150 pp.

61-0005 Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

61-0006 Stephenson, F., 1977. An assessment of the permanent water level stations in the Canadian Arctic. Lighthouse 16:21-25.

62-0005 Canadian Oceanographic Data Center, 1963. Five Arctic Surveys. Report No. 4, 1963. Data Record Series. 90 pp.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

62-0006 Canadian Oceanographic Data Center, 1966b Arctic, Hudson Bay and Hudson Strait. August 5 - October 4, 1962 Data Record Series No. 4. 247 pp. plus illustrations.

Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

62-0007 Canadian Oceanographic Data Center, 1967. Baffin Bay, 1962. September 25 - October 24, 1962 Data Record Series No. 4. 169 pp. plus illustrations.

> Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago. An atlas presention of 1961 and 1962 data. Dept. of Energy, Mines and Resources, Mar. Sc. Branch, Ottawa. Man. Rep. Ser. No. 21. 76 pp.

65-0004 Lewis, E.L. and E.R. Walker, 1970. The water structure under a growing sea-ice sheet. J. Geophys. Res. 75(33), Nov. 20.

66-0004 Palfrey, K.M. and G.G. Day, 1968. Oceanography of Baffin Bay and Nares Strait in the summer of 1966 and current measurements in Smith Sound, summer 1963. U.S. Coast Guard, Washington, D.C. (see NTIS in Appendix 3). Ocean. Rept. No. 16.

67-0002 Canadian Oceanographic Data Center, 1968. Hudson Bay, Hudson Strait and Arctic. Data Record Series No. 4.

68-0001 Herlinveaux, R.H., 1970. Icepack 8/68 - Oceanographic and biological observations. Fish. Res. Bd. Can. Nanaimo, B.C., Tech. Rep. No. 159. 60pp.

68-0002 Lewis, E.L. and E.R. Walker, 1970. The water structure under a growing sea-ice sheet. J. Geophys. Res. 75: 6836-6845.

69-0003 Stephenson, F., 1977. An assessment of the permanent water level stations in the Canadian Arctic. Lighthouse 16: 21-25.

70-0006 U.S. Coast Guard, 1972. Oceanographic conditions in the northern Baffin Bay region, 24 July - 6 August 1970. U.S. Coast Guard, Washington, D.C. (see NTIS in Appendix 3). Ocean. Rep. No. 54. CG-373-54. August 1972.

71-0006 Institute of Ocean Sciences, 1973. Oceanographic data report-Cambridge Bay, N.W.T., September 1971 to April 1972. Frozen Sea Research Group, Pacific Region, Sidney, B.C. Pac. Mar. Sc. Rep. 73-9. 369 pp.

71-0007 Stephenson, F., 1977. An assessment of the permanent water level stations in the Canadian Arctic. Lighthouse 16: 21-25.

72-0011 Herlinveaux, R.H. and S.E.G. Wilson, 1974. Oceanographic observations in the Canadian Arctic, September 1972. Env. Canada, Fisheries and Marine Service, Marine Science Directorate, Pacific Region, Victoria, B.C., Pacific Marine Science Report, February 1974. 24 pp.

73-0005 Codispoti, L.A. and T.G. Owens, 1975. Nutrient transports through Lancaster Sound in relation to the Arctic Ocean's reactive silicate budget and the outflow of Bering Strait waters. Limnol. and Oceanog. 20: 115-119.

73-0006 Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, 1978. Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., April 1973. Institute of Ocean Sciences, Sidney, B.C. Pac. Mar. Sc. Rep. 78-4. 170 pp.

74-0012 Taylor, R.B., 1975. Coastal investigations of northern Somerset Island and Barrow Strait, District of Franklin. Energy, Mines and Resource, Geol. Survey of Canada, Ottawa. Paper 75-1: 501-504.

74-0013 Bedford Institute of Oceanography, 1974. Cruise Report No. 74-026, Part 1. Atl. Geoscience Centre, Dartmouth, N.S. 25 pp.

74-0014 Thompson, D., S. Woods and J. Acreman, 1975. Marine ecology survey in the central portion of the Canadian Arctic Islands, 1974. Marine Sciences Centre, McGill University report for Polar Gas Project, Toronto. 77 pp.

74-0015 B.C. Research, 1975. Baseline survey of the marine environment at Strathcona Sound, N.W.T. Unpubl. Prog. Rept. No. 1 for Strathcona Mineral Services. Vancouver, B.C. 84 pp.

Barber, F.G. and T.S. Murty, 1975. A preliminary note on the oceanography of Strathcona Sound. Marine Sciences Directorate, Ottawa, Oct. 1975. 23 pp.

Walker, E.R., 1977. Aspects of oceanography in the archipelago. Inst. of Ocean Sciences, Sidney, B.C. Note-3. 186 pp.

75-0013 Sekerak, A.D., D. Thompson, H. Bain and J. Acreman, 1976. Summer surveys of the marine ecology of Creswell Bay, Cornwallis Island, N.W.T. 1975. Unpubl. rep. By LGL, Toronto for the Polar Gas Project, Toronto.

75-0014 Serson, H.V., 1976. An oceanographic survey of Fury and Hecla Strait. Defence Research Establishment Ottawa. Tech. Note 75-14, May 1976. 45 pp.

76-0007 Sadler, H.E., H.V. Serson and R.K. Chow, 1979. The oceanography of Fury and Hecla Strait. Def. Res. Est. Pac., Victoria, B.C. Tech. Mem. 79-11. 61 pp. plus appendices.

76-0008 Sekerak, A.D., R.A. Buchanan, W.B. Griffiths and M.G. Foy, 1976. Biological oceanographic studies in Lancaster Sound, 1976. Unpubl. rep. by LGL, Toronto for Norlands Petroleum Ltd., Calgary. 243 pp.

76-0009 Morison, S.R. and R.B. Taylor, 1978. Physical characteristics and seasonal changes in an Arctic estuarine environment. In Current Res., Part B, Energy, Mines and Resources, Geol. Survey of Canada, Ottawa. Paper 78-1B: 101-106.

76-0010 Bain, H., D. Thompson, M. Foy and W. Griffiths, 1977. Marine ecology of fast-ice edges in Wellington Channel and Resolute Passage, N.W.T. Unpubl. Rep. by LGL, Toronto for the Polar Gas Project, Toronto. 262pp.

76-0011 Bedford Institute of Oceanography, 1976. Cruise Rept. No. 76-023. Atl. Geoscience Centre, Dartmouth, N.S. 9 pp.

77-0011 Dr. Pounder, Marine Sciences Center, McGill University, Montreal.

77-0012 Peck, G.S., 1978. Arctic oceanographic data report, 1977. Viscount Melville Sound. Ocean and Aquatic Sciences, Central Region, Burlington. Data Report Series No. 78-3. 150 pp., illustrations.

Peck, G.S., 1977. Arctic oceanographic survey, 1977. Ocean and Aquatic Sciences, Central Region, CCIW, Burlington. Field Rep. Ser. No. 77-2. 39 pp.

77-0013 Fissel, D.B. and G.R. Wilton, 1978. Subsurface current measurements in eastern Lancaster Sound, N.W.T. - Summer 1977. Contractor report series 78-3 by Arctic Sciences Ltd., Sidney, B.C. for the Institute of Ocean Sciences, Sidney, B.C. 72 pp.

77-0014 Bedford Institute of Oceanography, 1977. Cruise Report No. 77-024. Atl. Ocean. Lab., Dartmouth, N.S. 45 pp.

77-0015 Thompson, D., W.E. Cross, H. Bain and L. Patterson, 1978. Aspects of the spring and summer marine environment of Brentford Bay, Boothia Peninsula, N.W.T. Unpubl. rept. by LGL, Toronto for the Polar Gas Project, Toronto. 203 pp.

77-0016 Buchanan, R.A., W.E. Cross and D.H. Thompson, 1977. Survey of the marine environment of Bridport Inlet, Melville Island. Unpubl. rept. by LGL, Toronto for Petro-Canada Ltd., Calgary, Alberta. 265 pp.

77-0017 Bedford Institute of Oceanography, Hydrography Dept., Dartmouth, N.S.

77-0018 Fissel, D.B. and J.R. Marko, 1978. A surface current study of eastern Parry Channel, N.W.T. - summer, 1977. Contract Rept. No. 78-4 by Arctic Sciences Ltd., Sidney, B.C. for the Institute of Ocean Sciences, Sidney, B.C. 66 pp.

77-0020 Data available from the Institute of Ocean Sciences, Sidney, B.C.

78-0003 Greisman, P., 1978. Bridport Inlet, Melville Island - Physical oceanographic and ice surveys - February - June 1978. Unpub. man. by Arctic Sciences Ltd., Sidney, B.C. for Phoenix Ventures, Calgary, Alberta for Petro-Canada, Calgary, Alberta. 118 pp.

78-0004 Dr. Pounder, Marine Sciences Center, McGill University, Montreal.

78-0005 A. Lemon, D.D., 1980. CTD data from western Baffin Bay and Lancaster Sound, 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 3. 52 pp. plus appendices.

B. Fissel, D.B. and G.R. Wilton, 1980. Subsurface current measurements in western Baffin Bay and Lancaster Sound, 1978-79. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 1. 52 pp. plus appendices.

C. Fissel, D.B., 1980a. Satellite-tracked drifting buoy movements in Baffin Bay and Lancaster Sound, summer 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 2. 40 pp. plus appendices.

D. Fissel, D.B. and J.R. Birch, 1980. Current profile measurements in western Baffin Bay and Lancaster Sound, summers of 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 4. 17 pp. plus appendices.

E. Birch, J.R., 1980b. Analysis of water level record for Johnson Bay, N.W.T., August 22, 1978 - May 12, 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 6. 43 pp.

Fissel, D.B., 1982. Tidal currents and inertial oscillations in northwestern Baffin Bay. Arctic 35: 201-210.

Fissel, D.B., D.D. Lemon and J.R. Birch, 1982. Major features of the summer near-surface circulation of western Baffin Bay, 1978 and 1979. Arctic 35: 180-200.

Lemon, D.D. and D.B. Fissel, 1982. Seasonal variations in currents and water properties in northwestern Baffin Bay, 1978-1979. Arctic 35: 211-218.

Marko, J.R., 1981. The ice environment of eastern Lancaster Sound and western Baffin Bay. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 195 pp. plus appendices.

Marko, J.R., J.R. Birch and M.A. Wilson, 1982. A study of long-term satellite-tracked iceberg drifts in Baffin Bay and Davis Strait. Arctic 35: 234-240.

78-0006 Lake, R.A., 1978. An oceanographic study of Bridport Inlet, Melville Island, N.W.T., Part 1. Frozen Sea Research Group, Inst. of Ocean Sciences, Sidney, B.C. 12 pp.

78-0007 Prinsenberg, S.J., 1978. Arctic oceanographic data report 1978, Vol. 1. Ocean and Aquatic Sciences, Central Region, Burlington. Data Report Series 78-4. 211 pp., illustrations.

Peck, G.S., 1980. Arctic oceanographic data report, 1978. Vol. 2. Ocean and Aquatic Sciences, Central Region, Burlington. Data Report Series 80-1. 163 pp., illustrations.

79-0011 A. Lemon, D.D., 1980. CTD data from western Baffin Bay and Lancaster Sound, 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 3. 52 pp. plus appendices.

B. Fissel, D.B. and G.R. Wilton, 1980. Subsurface current measurements in western Baffin Bay and Lancaster Sound, 1978-79. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 1. 52 pp. plus appendices.

C. Fissel, D.B., 1980a. Satellite-tracked drifting buoy movements in Baffin Bay and Lancaster Sound, summer 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 2. 40 pp. plus appendices.

D. Fissel, D.B. and J.R. Birch, 1980. Current profile measurements in western Baffin Bay and Lancaster Sound, summers of 1978 and 1979. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 4. 17 pp. plus appendices.

Fissel, D.B., 1982. Tidal currents and inertial oscillations in northwestern Baffin Bay. Arctic 35: 201-210.

Fissel, D.B., D.D. Lemon and J.R. Birch, 1982. Major features of the summer near-surface circulation of western Baffin Bay, 1978 and 1979. Arctic 35: 180-200.

Lemon, D.D. and D.B. Fissel, 1982. Seasonal variations in currents and water properties in northwestern Baffin Bay, 1978-1979. Arctic 35: 211-218.

Marko, J.R., 1981. The ice environment of eastern Lancaster Sound and western Baffin Bay. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 195 pp. plus appendices.

Marko, J.R., J.R. Birch and M.A. Wilson, 1982. A study of long-term satellite-tracked iceberg drifts in Baffin Bay and Davis Strait. Arctic 35: 234-240.

79-0012 Kashino, R.K., 1979. Ocean current measurement program - Dolphin and Union Straits, N.W.T. Polar Gas Pipeline Survey. Submitted to Kenting Exploration Services Ltd. by Dobrocky Seatech Ltd., Sidney, B.C. Unpub. man., 183 pp.

79-0013 Polar Gas Project, 1979. M'Clure Strait marine geophysical investigation - April 1979. By Polar Gas Project, Toronto for Combined Pipeline System Study. 73 pp.

79-0014 Lake, R.A., 1979. An oceanographic study of Bridport Inlet, Melville Island, N.W.T. Parts 2 and 3, March - August, 1979. Frozen Sea Research Group, Institute of Ocean Sciences, Sidney, B.C. Part 2: 59 pp., Part 3: 288 pp.

79-0015 Birch, J.R., 1980a. 1979 Nearshore studies of the physical oceanography of Cape Warrender, Cape Fanshawe and Cape Hay. Unpub. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. Data Rept. No. 5. 129 pp.

80-0007 Bedford Institute of Oceanography, 1980. Dartmouth, N.S. Cruise Report No. 80-027. 38 pp.

80-0008 Fissel, D.B. and J.R. Birch, 1981. A physical oceanographic study of N.W. Baffin Bay, summer 1980. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Petro-Canada Ltd., Calgary, Alberta. 455 pp.

80-0009 Personal communications with R.A. Lake of the Frozen Sea Research Group, Institute of Ocean Sciences, Sidney, B.C.

80-0010 Lemon, D.D., M.A. Wilson and L.E. Cuypers, 1981. Measurements of wind, ice and surface-layer drift in Viscount Melville Sound - Summer 1980. Unpubl. man. by Arctic Sciences Ltd., Sidney, B.C. for Dome Petroleum Ltd., Calgary, Alberta. 152 pp. plus appendices.

80-0011 Data available from the Canadian Hydrographic Service, Bayfield Laboratory for Marine Science and Surveys, Burlington.

81-0007 Brooks, D.J., 1981. Arctic oceanographic survey, Barrow Strait - 1981 field report. Ocean and Aquatic Sciences, Ocean. Div., Bayfield Laboratory for Marine Science and Surveys, Burlington. Unpubl. man. 6 pp.

81-0008 Data available from the Canadian Hydrographic Service, Bayfield Laboratory for Marine Science and Surveys, Burlington.

11. LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS, BY YEAR

This section gives detailed listings of measurement locations and times for each of the data sets plotted on the maps in Section 9. (Drifter data sets whose measurement locations were plotted as shaded areas only are not listed.) There are separate listings for temperature-salinity data, current meter data and water level data. Each listing is ordered by data set number. An explanation of the format appears at the start of each listings. Only data collected within the area of this inventory are listed here; measurements taken elsewhere may be found in the inventories for those areas.

11.1 TEMPERATURE-SALINITY DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source.
LAT, LONG	In degrees and minutes.
YR	Year
MO	Month
DY	Day
HR	Hour (GMT)
CAST TO	Maximum depth of data, in metres.
WATER DEPTH	In metres, if available.
PARAM MEAS	Parameters measured - conductivity, salinity, temperature. Each parameter measured is qualified by one of the following: X - measurements of this parameter were made X? - means it appears that such a measurement was made but some uncertainty exists, generally due to poor documentation CA - possible calibration problems S - suspect readings C - constant readings over parts of record 0 - zero or obviously bad readings

INSTR	Instrument type: BOT - bottle sample GLDL - Guideline CTD AAND - Aanderaa current meter BECK - Beckman INTO - Interocean CTD YSIC - Yellow Springs Instruments Co. BISS - Bisset Berman STD AMS - Applied Microsystems CTD HYT - Hytech induction salinometer
INT(HR)	The time period between repeat stations.
NO	The number of repeat stations.

Blank entries indicate unavailable or inapplicable data.
? after an entry implies suspect information but the only/best data available.
? alone means no information available.

BOTTLE/CTD DATA SET NUMBER: 28-0001
YEAR:1928 VESSEL/AGENCY: GODTHAAB EXPEDITION

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LANCASTER SD.	122	74	26.0	81	50.0	28	8	20	?	700	735		X	X	BOT		
LANCASTER SD.	123	74	22.0	81	54.0	28	8	20	?	660	700		X	X	BOT		
LANCASTER SD.	124	74	16.0	81	56.0	28	8	20	?	750	770		X	X	BOT		
LANCASTER SD.	125	74	10.0	81	59.0	28	8	20	?	650	670		X	X	BOT		
LANCASTER SD.	126	74	3.0	82	2.0	28	8	20	?	620	650		X	X	BOT		
LANCASTER SD.	127	73	56.0	82	6.0	28	8	20	?	675	700		X	X	BOT		
LANCASTER SD.	128	73	53.0	82	8.0	28	8	20	?	775	775		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 35-0001
YEAR:1935 VESSEL/AGENCY: R.C.M.P. ST. ROCHE

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CORON.GU	1	68	24.0	113	50.0	35	8	31	?	1	?		X	X	BOT		
CORON.GU	2	68	6.0	110	35.0	35	9	11	?	1	?		X	X	BOT		
CORON.GU	3	68	56.0	108	20.0	35	9	12	?	1	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 37-0001
YEAR:1937 VESSEL/AGENCY: R.C.M.P. ST. ROCHE

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
DEASE ST	1	68	58.0	106	20.0	37	7	25	?	1	?		X	X	BOT		
CORON.GU	2	67	46.0	112	40.0	37	7	27	?	1	?		X	X	BOT		
CORON.GU	3	67	53.0	115	0.0	37	7	28	?	1	?		X	X	BOT		
DOL.&UN.	4	68	45.0	114	25.0	37	7	29	?	1	?		X	X	BOT		
DOL.&UN.	5	69	3.0	115	37.0	37	8	2	?	1	?		X	X	BOT		
CORON.GU	6	68	16.0	114	0.0	37	8	9	?	1	?		X	X	BOT		
CORON.GU	7	68	18.0	113	55.0	37	8	10	?	1	?		X	X	BOT		
CORON.GU	8	68	20.0	113	45.0	37	7	11	?	1	?		X	X	BOT		
CORON.GU	9	68	26.0	113	55.0	37	8	12	?	1	?		X	X	BOT		
DOL.&UN.	10	68	51.0	114	51.0	37	7	15	?	1	?		X	X	BOT		
DOL.&UN.	11	69	7.0	116	0.0	37	7	16	?	1	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 46-0001
YEAR:1946 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
LANCASTER SD.	13	74	26.0	81	45.0	46	7	24	?	500	676		X	X	BOT		
LANCASTER SD.	19	74	35.0	82	11.0	46	7	29	?	50	71		X	X	BOT		
LANCASTER SD.	20	74	18.0	86	47.0	46	7	30	?	394?	391 ?		X	X	BOT		

LANCASTER SD.	24	74 18.0	82 30.0	46	8	7	?	591	667		X	X	BOT		
LANCASTER SD.	25	74 26.0	89 7.0	46	8	9	?	250	276		X	X	BOT		
LANCASTER SD.	26	74 2.0	80 35.0	46	8	9	?	328	410		X	X	BOT		
LANCASTER SD.	27	73 57.0	87 15.0	46	8	10	?	400	439		S	X	BOT		
LANCASTER SD.	28	74 3.0	87 15.0	46	8	10	?	450	457		X	X	BOT		
LANCASTER SD.	29	74 8.0	87 15.0	46	8	10	?	443?	439 ?		X	X	BOT		
LANCASTER SD.	30	74 13.0	87 15.0	46	8	10	?	400	419		X	X	BOT		
LANCASTER SD.	31	74 18.0	87 15.0	46	8	10	?	400	448		X	X	BOT		
LANCASTER SD.	32	74 19.0	81 51.0	46	8	18	?	750	786		X	X	BOT		
LANCASTER SD.	33	74 12.0	81 38.0	46	8	18	?	689	739		X	X	BOT		
LANCASTER SD.	34	74 5.0	81 26.0	46	8	18	?	600	700		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 48-0001
YEAR: 1948 VESSEL/AGENCY: USCGC EASTWIND

AREA	STN	LAT DEG MIN	LONG DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW S	13	74?45.0	94?40.0	48	9	4	?	23	27		X	X	BOT		
G.BOTHIA	14	71 11.0	89 7.0	48	9	8	?	91	100		X	X	BOT		
F&H ST.	15	69 56.0	84 58.0	48	9	9	?	122	256		X	X	BOT		
F&H ST.	16	69 44.0	83 39.0	48	9	9	?	30	?		X	X	BOT		
F&H ST.	17	69 44.0	83 39.0	48	9	10	?	107	119		X	X	BOT		
F&H ST.	18	69 44.0	83 39.0	48	9	9	?	122	122		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 50-0002
YEAR: 1950 VESSEL/AGENCY: EDISTO

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW S	13	74	36.0	92	40.0	50	8	17	?	149	173		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 52-0003
YEAR: 1952 VESSEL/AGENCY: EDISTO

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW S	35	74	37.0	94	42.0	52	8	8	?	100	120		X	X	BOT		
VISC. MEL. SD	36	74	50.0	101	45.0	52	8	9	?	150	182		X	X	BOT		
VISC. MEL. SD	37	74	57.0	108	52.0	52	8	11	?	50	63		X	X	BOT		
VISC. MEL. SD	38	74	56.0	105	5.0	52	8	12	?	100	100		X	X	BOT		
VISC. MEL. SD	39	74	53.0	102	48.0	52	8	12	?	100	128		X	X	BOT		
VISC. MEL. SD	40	74	46.0	101	22.0	52	8	12	?	100	128		X	X	BOT		
BARROW S	41	74	38.0	96	32.0	52	8	13	?	200	256		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 53-0001
YEAR:1953 VESSEL/AGENCY: USS BURTON ISLAND

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PR.WALES	12	71	59.0	120	2.0	53	8	14	?	15	23		X	X	BOT		
PR.WALES	13	71	50.0	118	54.0	53	8	15	?	25	66		X	X	BOT		
PR.WALES	14	71	55.0	119	32.0	53	8	15	?	90	97		X	X	BOT		
PR.WALES	15	72	11.0	119	4.0	53	8	15	?	90	97		X	X	BOT		
PR.WALES	17	72	22.0	118	46.0	53	8	16	?	40	80		X	X	BOT		
PR.WALES	18	72	23.0	118	30.0	53	8	16	?	40	42		X	X	BOT		
PR.WALES	19	73	12.0	115	30.0	53	8	20	?	40	53		X	X	BOT		
PR.WALES	20	73	11.0	115	35.0	53	8	20	?	80	86		X	X	BOT		
PR.WALES	21	72	24.0	118	42.0	53	8	22	?	40	82		X	X	BOT		
PR.WALES	22	72	25.0	119	0.0	53	8	22	?	45	47		X	X	BOT		
PR.WALES	23	72	21.0	119	15.0	53	8	22	?	60	63		X	X	BOT		
PR.WALES	24	72	56.0	117	25.0	53	8	23	?	40	51		X	X	BOT		
PR.WALES	25	72	35.0	118	25.0	53	8	24	?	40	55		X	X	BOT		
PR.WALES	26	72	38.0	118	38.0	53	8	24	?	85	92		X	X	BOT		
PR.WALES	27	72	40.0	118	54.0	53	8	24	?	95	101		X	X	BOT		
PR.WALES	28	72	23.0	118	42.0	53	8	24	?	70	74		X	X	BOT		
PR.WALES	29	72	23.0	118	58.0	53	8	25	?	90	93		X	X	BOT		
PR.WALES	30	72	22.0	119	14.0	53	8	25	?	40	64		X	X	BOT		
PR.WALES	31	71	58.0	120	13.0	53	8	25	?	70	75		X	X	BOT		
PR.WALES	32	71	56.0	119	38.0	53	8	25	?	115	120		X	X	BOT		
PR.WALES	33	71	53.0	119	8.0	53	8	25	?	15	26		X	X	BOT		
PR.WALES	36	71	28.0	120	35.0	53	8	25	?	40	80		X	X	BOT		
PR.WALES	37	73	24.0	115	5.0	53	8	31	?	40	54		X	X	BOT		
PR.WALES	38	73	21.0	115	3.0	53	8	31	?	80	86		X	X	BOT		
PR.WALES	39	73	14.0	115	30.0	53	8	31	?	40	109		X	X	BOT		
PR.WALES	40	73	5.0	116	38.0	53	9	1	?	40	115		X	X	BOT		
PR.WALES	41	73	2.0	116	34.0	53	9	1	?	140	150		X	X	BOT		
PR.WALES	42	73	1.0	116	28.0	53	9	1	?	42	42		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 54-0002
YEAR:1954 VESSEL/AGENCY:USS BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
MCLURE S	7	73	27.0	115	3.0	54	8	11	?	40	45		X	X	BOT	
MCLURE S	8	73	27.0	115	4.0	54	8	11	?	25	30		X	X	BOT	
VISC. MEL. SD	9	74	30.0	113	47.0	54	8	13	?	130	145		X	X	BOT	
VISC. MEL. SD	10	74	24.0	113	50.0	54	8	13	?	350	362		X	X	BOT	
VISC. MEL. SD	11	73	57.0	114	24.0	54	8	14	?	475	493		X	X	BOT	
VISC. MEL. SD	12	73	27.0	114	42.0	54	8	15	?	89	100		X	X	BOT	
MCLURE S	13	73	56.0	115	50.0	54	8	15	?	400	430		X	X	BOT	
MCLURE S	14	73	48.0	116	6.0	54	8	15	?	120	130		X	X	BOT	
MCLURE S	15	74	37.0	117	22.0	54	8	17	?	450	480		X	X	BOT	
MCLURE S	16	74	25.0	117	9.0	54	8	18	?	475	493		X	X	BOT	
MCLURE S	17	74	9.0	115	55.0	54	8	18	?	450	485		X	X	BOT	
VISC. MEL. SD	18	73	39.0	114	34.0	54	8	19	?	290	315		X	X	BOT	
VISC. MEL. SD	19	74	24.0	112	30.0	54	8	19	?	220	235		X	X	BOT	
VISC. MEL. SD	20	74	59.0	108	50.0	54	8	24	?	40	48		X	X	BOT	
VISC. MEL. SD	21	74	59.0	108	50.0	54	8	25	?	40	48		X	X	BOT	
VISC. MEL. SD	22	74	59.0	108	50.0	54	8	25	?	40	48		X	X	BOT	
VISC. MEL. SD	23	74	59.0	108	50.0	54	8	25	?	30	48		X	X	BOT	
VISC. MEL. SD	24	74	51.0	109	21.0	54	8	27	?	45	55		X	X	BOT	
VISC. MEL. SD	25	74	40.0	110	36.0	54	8	27	?	45	45		X	X	BOT	
VISC. MEL. SD	26	74	33.0	110	6.0	54	8	27	?	250	266		X	X	BOT	
VISC. MEL. SD	27	74	31.0	111	30.0	54	8	28	?	90	98		X	X	BOT	
VISC. MEL. SD	28	74	24.0	111	33.0	54	8	28	?	325	329		X	X	BOT	
VISC. MEL. SD	29	74	6.0	111	33.0	54	8	28	?	490	493		X	X	BOT	
VISC. MEL. SD	30	73	47.0	111	33.0	54	8	28	?	275	285		X	X	BOT	
VISC. MEL. SD	31	73	32.0	111	27.0	54	8	28	?	175	179		X	X	BOT	
VISC. MEL. SD	32	73	15.0	113	3.0	54	8	30	?	199	201		X	X	BOT	

VISC. MEL. SD	33	73	33.0	113	7.0	54	8	30	?	165	170		X	X	BOT		
VISC. MEL. SD	34	73	51.0	112	27.0	54	8	30	?	417	430		X	X	BOT		
VISC. MEL. SD	35	73	45.0	113	45.0	54	8	30	?	388	435		X	X	BOT		
VISC. MEL. SD	36	73	25.0	114	13.0	54	8	31	?	34	38		X	X	BOT		
VISC. MEL. SD	37	73	27.0	114	29.0	54	8	31	?	68	76		X	X	BOT		
MCLURE S	38	73	7.0	116	39.0	54	9	4	?	7C	70		X	X	BOT		
MCLURE S	39	73	14.0	116	18.0	54	9	4	?	70	70		X	X	BOT		
MCLURE S	40	73	11.0	116	16.0	54	9	4	?	70	70		X	X	BOT		
MCLURE S	41	73	3.0	116	46.0	54	9	5	?	75	75		X	X	BOT		
PR.WALES	42	72	19.0	119	20.0	54	9	6	?	60	65		X	X	BOT		
PR.WALES	43	72	22.0	118	55.0	54	8	6	?	80	80		X	X	BOT		
PR.WALES	44	72	22.0	118	34.0	54	8	6	?	30	38		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 54-0003
YEAR:1954 VESSEL/AGENCY: USCGC NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
MCLURE S	8	74	35.0	121	27.0	54	8	14	?	197	243		X	X	BOT		
MCLURE S	9	74	12.0	119	2.0	54	8	15	?	50	57		X	X	BOT		
MCLURE S	10	74	25.0	118	24.0	54	8	16	?	400	448		X	X	BOT		
MCLURE S	11	74	16.0	117	33.0	54	8	16	?	300	351		X	X	BOT		
MCLURE S	12	74	18.0	118	51.0	54	8	17	?	299	342		X	X	BOT		
MCLURE S	13	74	16.0	117	32.0	54	8	18	?	299	346		X	X	BOT		
MCLURE S	14	74	16.0	117	32.0	54	8	18	?	196	346		X	X	BOT		
MCLURE S	15	73	55.0	116	23.0	54	8	20	?	173	210		X	X	BOT		
PR.WALES	16	73	21.0	115	51.0	54	8	23	?	15	20		X	X	BOT		
VISC. MEL. SD	17	73	23.0	108	22.0	54	8	24	?	105	117		X	X	BOT		
VISC. MEL. SD	18	73	23.0	109	39.0	54	8	25	?	130	132		X	X	BOT		
VISC. MEL. SD	19	72	58.0	109	2.0	54	8	25	?	65	73		X	X	BOT		
VISC. MEL. SD	20	73	18.0	109	57.0	54	8	26	?	200	276		X	X	BOT		
VISC. MEL. SD	21	73	32.0	110	51.0	54	8	26	?	149	192		X	X	BOT		

VISC. MEL. SD	22	73	9.0	111	24.0	54	8	26	?	198	249		X	X	BOT		
VISC. MEL. SD	23	72	59.0	112	55.0	54	8	28	?	39	42		X	X	BOT		
PR.WALES	24	72	46.0	118	7.0	54	9	3	?	30	44		X	X	BOT		
PR.WALES	25	72	5.0	119	0.0	54	9	5	?	40	44		X	X	BOT		
PR.WALES	26	72	1.0	119	42.0	54	9	6	?	90	104		X	X	BOT		
PR.WALES	27	71	58.0	119	8.0	54	9	6	?	40	50		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 54-0001
YEAR:1954 VESSEL/AGENCY: CCGS LABRADOR

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
	2	73	36.0*	94	52.0*	54	7	31	23	17	25		X	X	BOT		
LAN. SD.	3	74	29.0	83	28.0	54	8	2	14	250	393		X	X	BOT		
LAN. SD.	4	74	14.0	83	19.0	54	8	2	16	576	732		X	X	BOT		
LAN. SD.	5	74	2.0	83	8.0	54	8	2	18	592	667		X	X	BOT		
LAN. SD.	6	73	49.0	82	53.0	54	8	2	21	580	704		X	X	BOT		
LAN. SD.	9	73	50.0	82	53.0	54	8	4	3	500	750		X	X	BOT		
LAN. SD.	10	74	2.0	82	24.0	54	8	4	5	590	688		X	X	BOT		
LAN. SD.	11	74	11.0	82	15.0	54	8	4	8	700	786		X	X	BOT		
LAN. SD.	12	74	22.0	81	52.0	54	8	4	9	600	660		X	X	BOT		
BARROW	31	74	39.0	94	53.0	54	8	15	16	25	35		X	X	BOT		
BARROW	32	74	39.0	94	53.0	54	8	15	20	25	35		X	X	BOT		
BARROW	33	74	39.0	94	53.0	54	8	16	0	25	35		X	X	BOT		
BARROW	34	74	39.0	94	53.0	54	8	16	4	25	35		X	X	BOT		
BARROW	35	74	39.0	94	53.0	54	8	16	8	25	35		X	X	BOT		
BARROW	36	74	39.0	94	53.0	54	8	16	12	25	35		X	X	BOT		
BARROW	37	74	39.0	94	53.0	54	8	16	16	25	35		X	X	BOT		
LAN. SD.	38	74	42.0	91	56.0	54	8	17	19	73	101		X	X	BOT		
BARROW	39	74	30.0	94	50.0	54	8	18	4	135	174		X	X	BOT		
BARROW	40	74	21.0	94	49.0	54	8	18	6	145	165		X	X	BOT		
BARROW	41	74	11.0	94	50.0	54	8	18	8	150	177		X	X	BOT		

* Position as received from MEDS , but Figure 2 of Bailey(1957) indicates stn 2 is near Resolute at lat 74 39'N.

BARROW	42	74	44.0	93	16.0	54	8	18	17	112	155	X	X	BOT
BARROW	43	74	44.0	92	52.0	54	8	18	19	95	115	X	X	BOT
BARROW	44	74	43.0	92	17.0	54	8	18	20	72	97	X	X	BOT
BARROW	45	74	5.0	97	20.0	54	8	20	21	225	265	X	X	BOT
BARROW	46	74	3.0	97	23.0	54	8	22	17	250	271	X	X	BOT
BARROW	47	74	6.0	96	44.0	54	8	22	20	200	220	X	X	BOT
BARROW	48	74	15.0	95	30.0	54	8	23	0	175	201	X	X	BOT
BARROW	49	74	39.0	95	1.0	54	8	23	4	75	101	X	X	BOT
VISC. MEL. SD	50	74	48.0	100	53.0	54	8	24	1	75	82	X	X	BOT
VISC. MEL. SD	51	74	52.0	102	16.0	54	8	24	6	100	128	X	X	BOT
VISC. MEL. SD	52	74	59.0	103	4.0	54	8	24	10	100	135	X	X	BOT
VISC. MEL. SD	55	74	59.0	105	14.0	54	8	25	5	100	119	X	X	BOT
VISC. MEL. SD	56	74	56.0	108	46.0	54	8	26	18	100	122	X	X	BOT
VISC. MEL. SD	57	74	44.0	109	4.0	54	8	27	0	115	132	X	X	BOT
VISC. MEL. SD	58	74	47.0	109	16.0	54	8	27	2	120	135	X	X	BOT
VISC. MEL. SD	59	74	33.0	109	48.0	54	8	27	16	300	318	X	X	BOT
VISC. MEL. SD	60	74	27.0	110	40.0	54	8	27	23	325	357	X	X	BOT
VISC. MEL. SD	61	74	27.0	110	40.0	54	8	28	2	325	357	X	X	BOT
VISC. MEL. SD	62	74	8.0	110	40.0	54	8	28	10	450	497	X	X	BOT
VISC. MEL. SD	63	73	55.0	111	3.0	54	8	28	14	475	512	X	X	BOT
VISC. MEL. SD	64	73	8.0	112	48.0	54	8	30	0	50	57	X	X	BOT
PR.WALES	65	73	21.0	115	13.0	54	8	30	14	67	82	X	X	BOT
PR.WALES	66	73	24.0	115	22.0	54	8	30	15	35	44	X	X	BOT
PR.WALES	67	73	27.0	115	11.0	54	8	30	17	30	30	X	X	BOT
PR.WALES	68	73	24.0	115	15.0	54	8	30	18	60	71	X	X	BOT
PR.WALES	69	73	20.0	115	6.0	54	8	30	19	70	91	X	X	BOT
PR.WALES	70	73	15.0	116	26.0	54	8	31	1	60	71	X	X	BOT
PR.WALES	71	73	14.0	116	31.0	54	8	31	3	60	71	X	X	BOT
PR.WALES	72	73	11.0	116	21.0	54	8	31	4	55	73	X	X	BOT
PR.WALES	73	73	8.0	116	14.0	54	8	31	5	47	58	X	X	BOT
PR.WALES	74	73	17.0	115	55.0	54	8	31	6	50	60	X	X	BOT
PR.WALES	75	73	13.0	115	48.0	54	8	31	8	72	91	X	X	BOT
PR.WALES	76	73	10.0	116	22.0	54	9	2	13	75	91	X	X	BOT
PR.WALES	77	72	57.0	117	19.0	54	9	5	0	35	42	X	X	BOT
PR.WALES	78	72	56.0	117	26.0	54	9	5	4	123	146	X	X	BOT
PR.WALES	79	72	53.0	117	38.0	54	9	5	8	106	137	X	X	BOT

BOTTLE/CTD DATA SET NUMBER: 54-0004
YEAR:1954   VESSEL/AGENCY: MCGILL UNIVERSITY

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CORON.G	1	68	8.0	114	25.0	54	5	28	12	100	?		X	X	BOT		
DEASE ST	2	69	5.0	105	45.0	54	8	10	12	80	85		X	X	BOT		
ADMIR. I	3	73	2.0	85	5.0	54	9	22	12	90	95		X	X	BOT		
ADMIR. I	4	73	2.0	85	5.0	54	10	28	12	90	95		X	X	BOT		
ADMIR. I	5	73	0.0	85	10.0	54	11	18	12	100	?		X	X	BOT		
ADMIR. I	6	73	0.0	85	10.0	54	12	28	12	100	?		X	X	BOT		
LANCASTER SD.	7	73	45.0	84	40.0	55	4	11	12	100	?		X	X	BOT		
LANCASTER SD.	8	73	45.0	81	25.0	55	4	26	12	40	50		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 56-0003
YEAR:1956 VESSEL/AGENCY: LABRADOR

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
F&H ST.	146	69	54.0	84	3.0	56	9	16	23	60	77		X	X	BOT		
BOOTHIA	147	69	52.0	85	54.0	56	9	17	14	240	260		X	X	BOT		
BOOTHIA	148	69	53.0	86	31.0	56	9	17	17	200	219		X	X	BOT		
BOOTHIA	149	69	48.0	88	6.0	56	9	17	22	100	119		X	X	BOT		
BOOTHIA	150	69	41.0	89	28.0	56	9	18	1	30	40		X	X	BOT		
BOOTHIA	151	69	42.0	89	0.0	56	9	21	2	74	?		X	X	BOT		
BOOTHIA	152	69	56.0	88	45.0	56	9	21	5	91	101		X	X	BOT		
BOOTHIA	153	70	14.0	88	30.0	56	9	21	7	129	172		X	X	BOT		
BOOTHIA	154	70	20.0	89	19.0	56	9	21	9	120	146		X	X	BOT		
BOOTHIA	155	70	19.0	90	17.0	56	9	21	11	146	166		X	X	BOT		
BOOTHIA	156	70	20.0	91	13.0	56	9	21	13	183	219		X	X	BOT		
BOOTHIA	157	70	48.0	91	54.0	56	9	21	16	156	192		X	X	BOT		

BOOTHIA	158	70	50.0	91	14.0	56	9	21	18	136	174	X	X	BOT
BOOTHIA	159	70	55.0	90	39.0	56	9	21	19	135	159	X	X	BOT
BOOTHIA	160	71	0.0	90	0.0	56	9	21	21	82	108	X	X	BOT
PR.REG.	161	71	55.0	90	34.0	56	9	22	2	173	209	X	X	BOT
PR.REG.	162	71	53.0	91	14.0	56	9	22	5	299	348	X	X	BOT
PR.REG.	163	71	51.0	92	10.0	56	9	22	7	188	218	X	X	BOT
PR.REG.	164	72	4.0	93	38.0	56	9	22	10	121	146	X	X	BOT
PR.REG.	165	71	59.0	93	40.0	56	9	22	11	99	128	X	X	BOT
PR.REG.	166	71	52.0	93	40.0	56	9	22	12	75	91	X	X	BOT
PR.REG.	167	71	47.0	93	15.0	56	9	22	13	74	82	X	X	BOT
PR.REG.	168	72	31.0	90	4.0	56	9	23	7	199	238	X	X	BOT
PR.REG.	169	72	36.0	90	57.0	56	9	23	9	298	384	X	X	BOT
PR.REG.	170	72	42.0	91	44.0	56	9	23	11	246	269	X	X	BOT
PR.REG.	171	73	16.0	90	49.0	56	9	23	16	290	337	X	X	BOT
PR.REG.	172	73	14.0	90	4.0	56	9	23	18	384	401	X	X	BOT
PR.REG.	173	73	12.0	89	28.0	56	9	23	20	362	454	X	X	BOT
PR.REG.	174	73	38.0	88	34.0	56	9	23	23	278	342	X	X	BOT
LAN. SD.	175	73	46.0	89	18.0	56	9	24	1	394	395	X	X	BOT
LAN. SD.	176	73	54.0	89	50.0	56	9	24	2	267	329	X	X	BOT
LAN. SD.	177	74	10.0	90	52.0	56	9	24	9	151	247	X	X	BOT
BARROW	178	74	11.0	94	44.0	56	9	27	8	180	192	X	X	BOT
BARROW	179	74	17.0	94	52.0	56	9	27	11	178	192	X	X	BOT
BARROW	180	74	28.0	94	52.0	56	9	27	12	150	165	X	X	BOT
BARROW	181	74	35.0	94	48.0	56	9	27	14	100	110	X	X	BOT
LAN. SD.	182	74	24.0	85	32.0	56	9	28	14	338	558	X	X	BOT
LAN. SD.	183	74	15.0	85	33.0	56	9	28	16	447	530	X	X	BOT
LAN. SD.	184	74	5.0	85	31.0	56	9	28	21	445	479	X	X	BOT
LAN. SD.	185	73	56.0	85	30.0	56	9	28	22	391	430	X	X	BOT
ADMIR. I	186	73	1.0	85	7.0	56	9	29	14	90	558	X	X	BOT
LAN. SD.	187	74	29.0	80	52.0	56	9	30	17	481	732	X	X	BOT
LAN. SD.	188	74	16.0	81	2.0	56	9	30	20	531	741	X	X	BOT
LAN. SD.	189	74	3.0	81	2.0	56	9	30	21	580	823	X	X	BOT
LAN. SD.	190	73	50.0	81	4.0	56	10	1	0	544	750	X	X	BOT

BOTTLE/CTD DATA SET NUMBER: 56-0001
YEAR:1956 VESSEL/AGENCY: REQUISITE

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CORON.GU	12	69	2.0	115	55.0	56	8	4	?	20	20		X	X	BOT		
CORON.GU	13	68	38.0	113	27.0	56	8	5	?	?	6		X	X	BOT		
CORON.GU	14	68	34.0	113	29.0	56	8	8	?	15	21		X	X	BOT		
RAE ST.	15	68	28.0	97	49.0	56	8	14	?	15	17		X	X	BOT		
RAE ST.	16	68	49.0	94	56.0	56	8	16	?	20	22		X	X	BOT		
RAE ST.	17	68	37.0	95	5.0	56	8	17	?	75	86		X	X	BOT		
RAE ST.	18	68	28.0	97	6.0	56	8	17	?	20	28		X	X	BOT		
VICT. ST	19	68	52.0	99	37.0	56	8	19	?	21	31		X	X	BOT		
VICT. ST	20	68	50.0	101	31.0	56	8	20	?	75	91		X	X	BOT		
VICT. ST	21	68	44.0	101	2.0	56	8	20	?	30	34		X	X	BOT		
CAMB.BAY	22	68	51.0	105	0.0	56	8	21	?	50	60		X	X	BOT		
CORON.GU	23	68	29.0	110	0.0	56	8	22	?	50	65		X	X	BOT		
CORON.GU	24	68	33.0	113	29.0	56	8	22	?	15	21		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 56-0002
YEAR:1956 VESSEL/AGENCY: WOODS HOLE OCEAN. INST.

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW S	1	74	45.0	95	15.0	56	?	?	?	?	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 57-0001
YEAR:1957 VESSEL/AGENCY: SPAR (US)

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DOL.&UN.	3	69	18.0	116	32.0	57	8	2	?	149	220		X	X	BOT		
CORON.GU	4	68	18.0	113	9.0	57	8	3	?	125	128		X	X	BOT		
CORON.GU	5	68	28.0	110	57.0	57	8	4	?	50	55		X	X	BOT		
QU.MAUD	6	68	56.0	105	53.0	57	8	6	?	50	63		X	X	BOT		
VICT. ST	7	68	44.0	101	24.0	57	8	11	?	26	33		X	X	BOT		
QU.MAUD	8	68	18.0	100	36.0	57	8	12	?	75	75		X	X	BOT		
QU.MAUD	9	68	28.0	100	19.0	57	8	13	?	35	35		X	X	BOT		
QU.MAUD	10	68	34.0	99	46.0	57	8	13	?	25	25		X	X	BOT		
SIMP.ST.	11	68	38.0	97	47.0	57	8	15	?	15	19		X	X	BOT		
SIMP.ST.	12	68	30.0	97	10.0	57	8	24	?	15	17		X	X	BOT		
RAE ST.	13	68	32.0	95	14.0	57	8	31	?	40	46		X	X	BOT		
RAE ST.	14	68	52.0	94	53.0	57	9	1	?	20	21		X	X	BOT		
RAE ST.	15	69	20.0	94	56.0	57	9	1	?	80	85		X	X	BOT		

RAE ST.	16	69	32.0	94	59.0	57	9	2	?	20	?		X	X	BOT		
JAMES R.	17	69	53.0	96	46.0	57	9	3	?	30	33		X	X	BOT		
LARSEN S	18	70	14.0	97	30.0	57	9	3	?	89	95		X	X	BOT		
BELLOT S	19	71	58.0	95	16.0	57	9	5	?	90	106		X	X	BOT		
PR.REG.I	20	72	16.0	91	20.0	57	9	7	?	300	393		X	X	BOT		
PR.REG.I	21	72	50.0	90	44.0	57	9	7	?	393	427		X	X	BOT		
LANCASTER SD.	22	74	1.0	88	0.0	57	9	8	?	400	421		X	X	BOT		
LANCASTER SD.	23	74	8.0	82	53.0	57	9	9	?	487	741		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 57-0003
YEAR:1957 VESSEL/AGENCY: LABRADOR

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
LAN. SD.	35	74	1.0	89	46.0	57	8	20	11	200	247		X	X	BOT		
LAN. SD.	36	73	52.0	88	51.0	57	8	20	13	363	439		X	X	BOT		
LAN. SD.	37	73	42.0	87	46.0	57	8	20	14	200	236		X	X	BOT		
PR.REG.	38	73	33.0	88	27.0	57	8	20	16	250	258		X	X	BOT		
LAN. SD.	39	73	42.0	89	19.0	57	8	20	18	400	457		X	X	BOT		
LAN. SD.	40	73	51.0	90	6.0	57	8	20	20	250	274		X	X	BOT		
PR.REG.	41	73	14.0	91	3.0	57	8	21	0	250	289		X	X	BOT		
PR.REG.	42	73	8.0	90	17.0	57	8	21	2	400	439		X	X	BOT		
PR.REG.	43	73	2.0	89	28.0	57	8	21	4	150	183		X	X	BOT		
PR.REG.	44	72	28.0	90	8.0	57	8	21	8	100	106		X	X	BOT		
PR.REG.	45	72	18.0	90	16.0	57	8	21	11	50	73		X	X	BOT		
PR.REG.	46	72	14.0	91	18.0	57	8	21	13	350	379		X	X	BOT		
PR.REG.	47	72	14.0	92	11.0	57	8	21	16	90	101		X	X	BOT		
PR.REG.	48	72	12.0	93	28.0	57	8	21	18	100	137		X	X	BOT		
FRANK. S	49	71	57.0	95	27.0	57	8	25	1	50	51		X	X	BOT		
FRANK. S	50	72	1.0	95	49.0	57	8	25	3	312	412		X	X	BOT		
FRANK. S	51	72	5.0	96	8.0	57	8	25	5	400	430		X	X	BOT		
FRANK. S	52	71	52.0	96	20.0	57	8	25	9	327	466		X	X	BOT		

FRANK. S	53	71	48.0	96	0.0	57	8	25	10	400	430	X	X	BOT
FRANK. S	54	71	43.0	95	41.0	57	8	25	11	50	70	X	X	BOT
PR.REG.	55	72	11.0	93	16.0	57	8	26	6	120	137	X	X	BOT
PR.REG.	56	72	0.0	93	16.0	57	8	26	8	100	137	X	X	BOT
PR.REG.	57	71	47.0	93	16.0	57	8	26	9	75	75	X	X	BOT
PR.REG.	58	71	54.0	93	57.0	57	8	27	0	40	70	X	X	BOT
PR.REG.	59	72	28.0	90	7.0	57	8	27	14	100	104	X	X	BOT
PR.REG.	60	72	32.0	91	5.0	57	8	27	16	349	393	X	X	BOT
PR.REG.	61	72	41.0	92	3.0	57	8	27	19	200	223	X	X	BOT
BARROW	62	74	10.0	92	27.0	57	8	28	11	150	150	X	X	BOT
BARROW	63	74	19.0	92	14.0	57	8	28	12	200	216	X	X	BOT
BARROW	64	74	30.0	92	8.0	57	8	28	14	150	183	X	X	BOT
LAN. SD.	65	74	41.0	91	59.0	57	8	28	15	100	110	X	X	BOT
BARROW	66	74	40.0	92	30.0	57	8	28	16	120	132	X	X	BOT
BARROW	67	74	39.0	92	58.0	57	8	28	18	150	152	X	X	BOT
BARROW	68	74	39.0	93	31.0	57	8	28	19	150	177	X	X	BOT
BARROW	69	74	30.0	93	26.0	57	8	28	20	150	165	X	X	BOT
BARROW	70	74	22.0	93	26.0	57	8	28	21	150	165	X	X	BOT
BARROW	71	74	11.0	94	16.0	57	8	29	1	150	159	X	X	BOT
BARROW	72	74	19.0	94	19.0	57	8	29	2	150	157	X	X	BOT
BARROW	73	74	28.0	94	22.0	57	8	29	4	150	165	X	X	BOT
BARROW	74	74	36.0	94	24.0	57	8	29	5	100	119	X	X	BOT
BARROW	75	74	30.0	95	46.0	57	8	29	18	100	119	X	X	BOT
BARROW	76	74	38.0	94	52.0	57	8	30	0	100	100	X	X	BOT
BARROW	77	74	18.0	95	14.0	57	8	30	13	150	165	X	X	BOT
BARROW	78	74	5.0	95	16.0	57	8	30	15	150	168	X	X	BOT
BARROW	79	73	43.0	96	50.0	57	8	30	18	200	247	X	X	BOT
BARROW	80	73	43.0	96	20.0	57	8	30	20	200	247	X	X	BOT
BARROW	81	73	43.0	95	53.0	57	8	30	21	200	210	X	X	BOT
PEEL SD.	82	73	11.0	96	14.0	57	8	31	1	200	247	X	X	BOT
FRANK. S	83	72	15.0	96	12.0	57	8	31	4	324	357	X	X	BOT
LARSEN	84	70	56.0	96	54.0	57	9	4	0	75	86	X	X	BOT
FRANK. S	85	71	1.0	97	20.0	57	9	4	2	75	88	X	X	BOT
FRANK. S	86	71	9.0	98	0.0	57	9	4	4	100	130	X	X	BOT
PR.REG.	87	71	46.0	93	22.0	57	9	8	2	50	70	X	X	BOT
PR.REG.	88	71	46.0	92	23.0	57	9	8	4	100	124	X	X	BOT
PR.REG.	89	71	47.0	91	18.0	57	9	8	6	300	311	X	X	BOT
PR.REG.	90	71	47.0	90	11.0	57	9	8	8	40	46	X	X	BOT
PR.REG.	91	71	21.0	90	7.0	57	9	8	11	40	42	X	X	BOT
PR.REG.	92	71	16.0	90	58.0	57	9	8	13	150	174	X	X	BOT

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PR.REG.          93  71 10.0  91 47.0    57  9  8 14  200  219     X  X  BOT
PR.REG.          94  71  4.0  92 51.0    57  9  8 16   75   77     X  X  BOT
 BOOTHIA         95  70 37.0  91 58.0    57  9  8 19  200  210     X  X  BOT
 BOOTHIA         96  70 42.0  91  9.0    57  9  8 20  125  146     X  X  BOT
 BOOTHIA         97  70 47.0  90 22.0    57  9  8 22  100  128     X  X  BOT
 BOOTHIA         98  70 52.0  89 33.0    57  9  9  0   75  119     X  X  BOT
 BOOTHIA         99  70 27.0  88 49.0    57  9  9  2   50   59     X  X  BOT
 BOOTHIA        100  70 23.0  89 40.0    57  9  9  5  100  128     X  X  BOT
 BOOTHIA        101  70 16.0  90 26.0    57  9  9  8  125  146     X  X  BOT
 BOOTHIA        102  70 13.0  91 10.0    57  9  9 11  100  108     X  X  BOT
PR.REG.         103  71 11.0  89 50.0    57  9  9 23   75   77     X  X  BOT
BARROW          104  74  5.0  95 20.0    57  9 13 19  150  168     X  X  BOT
BARROW          105  74  5.0  96  5.0    57  9 13 21  170  192     X  X  BOT
BARROW          106  74  4.0  96 44.0    57  9 13 23  200  219     X  X  BOT
LAN. SD.        126  74 29.0  90  0.0    57  9 18  0  250  274     X  X  BOT
LAN. SD.        127  74 22.0  90  0.0    57  9 18  1  300  320     X  X  BOT
LAN. SD.        128  74 14.0  90  2.0    57  9 18  3  200  238     X  X  BOT
LAN. SD.        129  74  8.0  90  6.0    57  9 18  4  200  212     X  X  BOT
LAN. SD.        130  73 49.0  87 11.0    57  9 19  3  230  283     X  X  BOT
LAN. SD.        131  74  1.0  87  9.0    57  9 19  5  400  457     X  X  BOT
LAN. SD.        132  74 13.0  87 10.0    57  9 19  6  307  424     X  X  BOT
LAN. SD.        133  74 25.0  87 10.0    57  9 19  8  355  402     X  X  BOT
LAN. SD.        134  73 50.0  84 53.0    57  9 20 15  261  344     X  X  BOT
LAN. SD.        135  74  2.0  84 52.0    57  9 20 16  439  521     X  X  BOT
LAN. SD.        136  74 15.0  84 54.0    57  9 20 18  500  530     X  X  BOT
LAN. SD.        137  74 28.0  84 52.0    57  9 20 20  250  273     X  X  BOT
LAN. SD.        138  74 28.0  82 47.0    57  9 20 23  585  668     X  X  BOT
LAN. SD.        139  74 15.0  82 46.0    57  9 21  1  704  768     X  X  BOT
LAN. SD.        140  74  1.0  82 46.0    57  9 21  3  600  673     X  X  BOT
LAN. SD.        141  73 48.0  82 52.0    57  9 21  5  500  530     X  X  BOT
LAN. SD.        142  73 45.0  80 12.0    57  9 23 14  500  635     X  X  BOT
LAN. SD.        143  74  2.0  80 15.0    57  9 23 21  700  801     X  X  BOT
LAN. SD.        144  74 18.0  80 13.0    57  9 23 23  571  704     X  X  BOT
LAN. SD.        145  74 33.0  80 21.0    57  9 24  2  500  640     X  X  BOT
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BOTTLE/CTD DATA SET NUMBER:  59-0003
YEAR:1959     VESSEL/AGENCY:  DEFENSE RESEARCH EST. ?

    AREA         STN    LAT       LONG          DATE      CAST WATER  PARAM  INSTR INT NO
                      DEG MIN   DEG MIN    YR MO DY HR   TO  DEPTH   MEAS          HR
                                                         (M)   (M)   C  S  T

 BARROW S          1  74 43.5  96 23.0    59  5  7  ?   200   210 ?     X? X  BOT


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BOTTLE/CTD DATA SET NUMBER:  59-0002
YEAR:1959     VESSEL/AGENCY:  STATEN ISLAND (US)

    AREA         STN    LAT       LONG          DATE      CAST WATER  PARAM  INSTR INT NO
                      DEG MIN   DEG MIN    YR MO DY HR   TO  DEPTH   MEAS          HR
                                                         (M)   (M)   C  S  T

 CORON.GU         14  68 26.0 113 11.0    59  8 16  ?   100   104       X  X  BOT
 DOL.&UN.         15  69  1.0 116 47.0    59  7 25  ?   134   163       X  X  BOT
 DOL.&UN.         16  69 12.0 116 39.0    59  8 25  ?   205   218       X  X  BOT
 DOL.&UN.         17  69 19.0 116 30.0    59  8 25  ?   215   223       X  X  BOT
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BOTTLE/CTD DATA SET NUMBER: 60-0004
YEAR:1960 VESSEL/AGENCY: MV THETA

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
LAN. SD.	1	74	28.0	82	48.0	60	8	22	0	600	684		X	X	BOT		
LAN. SD.	2	74	15.0	82	47.0	60	8	22	3	673	786		X	X	BOT		
LAN. SD.	3	74	1.0	82	47.0	60	8	22	6	376	695		X	X	BOT		
LAN. SD.	4	73	48.0	82	47.0	60	8	22	9	500	512		X	X	BOT		
LAN. SD.	5	74	28.0	81	36.0	60	9	23	12	600	655		X	X	BOT		
LAN. SD.	6	74	15.0	81	32.0	60	9	23	16	700	805		X	X	BOT		
LAN. SD.	7	74	1.0	81	32.0	60	9	23	19	592	711		X	X	BOT		
LAN. SD.	8	73	48.0	81	34.0	60	9	23	22	600	637		X	X	BOT		
LAN. SD.	9	73	48.0	82	45.0	60	9	24	2	400	483		X	X	BOT		
LAN. SD.	10	74	1.0	82	45.0	60	9	24	4	592	679		X	X	BOT		
LAN. SD.	11	74	15.0	82	45.0	60	9	24	7	700	768		X	X	BOT		
LAN. SD.	12	74	28.0	82	45.0	60	9	24	9	600	702		X	X	BOT		
LAN. SD.	13	74	28.0	84	0.0	60	9	24	12	340	389		X	X	BOT		
LAN. SD.	14	74	15.0	83	59.0	60	9	24	15	594	658		X	X	BOT		
LAN. SD.	15	74	1.0	83	58.0	60	9	24	19	500	618		X	X	BOT		
LAN. SD.	16	73	48.0	83	57.0	60	9	24	21	196	228		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 60-0005
YEAR:1960 VESSEL/AGENCY: LABRADOR

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
BARROW	1	74	11.0	94	30.0	60	8	29	6	100	187		X	X	BOT	
BARROW	2	74	15.0	94	30.0	60	8	30	7	100	183		X	X	BOT	
BARROW	3	74	23.0	94	31.0	60	8	30	8	100	165		X	X	BOT	
BARROW	4	74	32.0	94	30.0	60	8	30	9	100	137		X	X	BOT	
BARROW	5	74	36.5	94	30.0	60	8	30	10	75	110		X	X	BOT	
BARROW	6	74	41.5	93	14.0	60	8	30	13	77	146		X	X	BOT	
BARROW	7	74	41.5	93	5.0	60	8	30	14	121	146		X	X	BOT	
BARROW	8	74	41.0	92	38.0	60	8	30	15	93	123		X	X	BOT	
BARROW	9	74	40.0	92	12.0	60	8	30	17	94	119		X	X	BOT	
LAN. SD.	10	74	39.5	91	50.0	60	8	30	18	89	137		X	X	BOT	
LAN. SD.	11	74	31.5	91	48.0	60	8	30	19	122	161		X	X	BOT	
LAN. SD.	12	74	22.5	91	49.0	60	8	30	21	299	?		X	X	BOT	
LAN. SD.	13	74	13.3	91	48.2	60	8	30	23	199	251		X	X	BOT	
LAN. SD.	14	74	6.3	91	52.0	60	8	31	0	99	132		X	X	BOT	
LAN. SD.	15	73	52.0	90	8.0	60	8	31	5	250	284		X	X	BOT	
LAN. SD.	16	73	46.0	89	44.0	60	8	31	7	150	344		X	X	BOT	
LAN. SD.	17	73	41.5	89	15.0	60	8	31	8	399	?		X	X	BOT	
PR.REG.	18	73	35.8	88	48.0	60	8	31	10	349	377		X	X	BOT	
PR.REG.	19	73	32.0	88	25.7	60	8	31	12	225	256		X	X	BOT	
PR.REG.	20	73	26.0	90	58.0	60	9	2	17	249	260		X	X	BOT	
PR.REG.	21	73	22.5	90	36.0	60	9	2	18	340	?		X	X	BOT	
PR.REG.	22	73	18.5	90	3.0	60	9	2	20	475	501		X	X	BOT	
PR.REG.	23	73	9.5	89	30.5	60	9	2	21	360	384		X	X	BOT	
PR.REG.	24	73	8.5	89	20.0	60	9	2	23	190	220		X	X	BOT	
PR.REG.	25	72	43.0	91	57.5	60	9	3	6	250	260		X	X	BOT	
PR.REG.	26	72	39.0	91	10.0	60	9	3	8	398	448		X	X	BOT	
PR.REG.	27	72	34.5	90	26.0	60	9	3	11	298	348		X	X	BOT	
PR.REG.	28	72	32.5	90	10.0	60	9	3	14	222	?		X	X	BOT	

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F&H ST.          33  69 51.0  83  6.0    60  9  6  8  100    ?       X  X  BOT
F&H ST.          34  69 55.3  84 18.0    60  9  6 11   75   91       X  X  BOT
F&H ST.          35  69 56.0  85 20.0    60  9  6 14  274  360       X  X  BOT
 BOOTHIA         36  69 47.5  87 23.0    60  9  6 18  199  238       X  X  BOT
 BOOTHIA         37  69 43.7  88 46.5    60  9  6 22   75   93       X  X  BOT
 BOOTHIA         38  70  2.0  88 46.0    60  9  7  0  100  128       X  X  BOT
 BOOTHIA         39  70 19.0  88 28.0    60  9  7  2   97  119       X  X  BOT
 BOOTHIA         40  70 19.0  89 17.0    60  9  7  4  130  146       X  X  BOT
 BOOTHIA         41  70 19.5  90 18.0    60  9  7  6  150  165       X  X  BOT
 BOOTHIA         42  70 19.5  90 58.0    60  9  7 12  179  201       X  X  BOT
PR.REG.          43  71 17.7  90 38.0    60  9  7 22  150  183       X  X  BOT
PR.REG.          44  71 48.0  91  5.0    60  9  8  3  270  302       X  X  BOT
F&H ST.          46  69 57.0  84 17.5    60  9 12 23   75   80       X  X  BOT
F&H ST.          47  69 54.3  84 21.7    60  9 13  0  130  141       X  X  BOT
LAN. SD.         48  74 25.3  87 13.5    60  9 15 10  400  421       X  X  BOT
LAN. SD.         49  74 14.5  87 12.0    60  9 15 12  400  443       X  X  BOT
LAN. SD.         50  73 54.0  87 11.0    60  9 15 14  376  476       X  X  BOT
LAN. SD.         51  73 50.0  87 10.0    60  9 15 16  216  238       X  X  BOT
LAN. SD.         52  74 26.3  81 49.5    60  9 16 13  400    ?       X  X  BOT
LAN. SD.         53  74 18.0  81 54.0    60  9 16 14  748    ?       X  X  BOT
LAN. SD.         54  74  5.5  81 47.0    60  9 16 15  705  750       X  X  BOT
LAN. SD.         55  73 57.0  81 50.0    60  9 16 17  504    ?       X  X  BOT
LAN. SD.         56  73 47.0  81 54.0    60  9 16 19   94    ?       X  X  BOT


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BOTTLE/CTD DATA SET NUMBER:  61-0004
YEAR:1961     VESSEL/AGENCY:  LABRADOR

   AREA          STN    LAT      LONG        DATE       CAST WATER  PARAM   INSTR INT NO
                      DEG MIN  DEG MIN   YR MO DY HR   TO   DEPTH   MEAS           HR
                                                       (M)   (M)   C  S  T

 MCLURE S          9  74 28.5 115  5.0   61  8 28 19  400  485       X  X  BOT
 MCLURE S         10  74 28.0 115  5.0   61  8 29 14  300  485       X  X  BOT
 MCLURE S         11  74 31.0 115 33.0   61  8 29 18  450  483       X  X  BOT
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MCLURE S	12	74	28.5	115	31.0	61	8	29	20	100	476	X	X	BOT
MCLURE S	13	74	28.2	115	30.8	61	8	29	23	100	474	X	X	BOT
MCLURE S	14	74	27.0	115	30.0	61	8	31	6	450	491	X	X	BOT
MCLURE S	15	74	25.0	115	26.5	61	8	31	14	98	485	X	X	BOT
MCLURE S	16	74	21.3	115	18.2	61	9	1	21	450	494	X	X	BOT
MCLURE S	17	74	22.0	115	9.0	61	9	2	14	450	488	X	X	BOT
VISC. MEL. SD	18	74	25.3	111	54.5	61	9	4	21	300	329	X	X	BOT
VISC. MEL. SD	19	74	46.0	101	13.0	61	9	5	14	99	115	X	X	BOT
BARROW	20	74	35.5	94	30.0	61	9	7	2	99	110	X	X	BOT
BARROW	21	74	30.0	94	30.0	61	9	7	4	140	155	X	X	BOT
BARROW	22	74	23.0	94	31.0	61	9	7	6	150	174	X	X	BOT
BARROW	23	74	17.0	94	30.0	61	9	7	9	150	184	X	X	BOT
BARROW	24	74	11.8	94	32.2	61	9	7	11	150	183	X	X	BOT
BARROW	25	74	41.0	93	14.0	61	9	7	15	100	128	X	X	BOT
BARROW	26	74	41.0	92	52.0	61	9	7	17	100	137	X	X	BOT
BARROW	27	74	41.0	92	32.0	61	9	7	18	125	144	X	X	BOT
BARROW	28	74	41.0	92	10.0	61	9	7	19	100	130	X	X	BOT
LAN. SD.	29	74	41.0	91	55.0	61	9	7	20	125	141	X	X	BOT
LAN. SD.	30	74	32.5	91	51.0	61	9	7	21	140	155	X	X	BOT
LAN. SD.	31	74	7.3	91	46.5	61	9	8	0	140	159	X	X	BOT
LAN. SD.	32	74	19.0	91	55.0	61	9	8	2	200	228	X	X	BOT
LAN. SD.	33	74	23.0	91	55.0	61	9	8	4	250	311	X	X	BOT
LAN. SD.	34	74	24.5	87	10.0	61	9	9	6	400	454	X	X	BOT
LAN. SD.	35	74	12.0	87	12.0	61	9	9	8	400	446	X	X	BOT
LAN. SD.	36	74	2.0	87	11.0	61	9	9	10	450	485	X	X	BOT
LAN. SD.	37	73	50.2	87	10.0	61	9	9	12	250	300	X	X	BOT
PR.REG.	38	72	43.0	91	55.0	61	9	11	13	200	241	X	X	BOT
PR.REG.	39	72	40.0	91	26.0	61	9	11	16	297	333	X	X	BOT
PR.REG.	40	72	37.0	90	50.0	61	9	11	18	398	419	X	X	BOT
PR.REG.	41	72	34.0	90	25.0	61	9	11	20	300	346	X	X	BOT
PR.REG.	42	72	33.0	89	59.0	61	9	11	21	68	79	X	X	BOT
PR.REG.	43	73	6.0	89	20.0	61	9	12	2	173	201	X	X	BOT
PR.REG.	44	73	9.3	89	43.0	61	9	12	3	391	421	X	X	BOT
PR.REG.	45	73	12.5	90	8.0	61	9	12	5	500	508	X	X	BOT
PR.REG.	46	73	15.0	90	32.0	61	9	12	7	300	360	X	X	BOT
PR.REG.	47	73	17.0	90	58.0	61	9	12	9	250	285	X	X	BOT
LAN. SD.	48	73	52.0	90	7.0	61	9	13	0	197	241	X	X	BOT
LAN. SD.	49	73	48.0	89	40.0	61	9	13	3	295	347	X	X	BOT
LAN. SD.	50	73	43.0	89	16.0	61	9	13	5	446	474	X	X	BOT
PR.REG.	51	73	38.0	88	52.0	61	9	13	7	380	395	X	X	BOT

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PR.REG.        52  73 33.0  88 26.0     61  9 13  9  200  267      X  X  BOT
LAN. SD.       53  73 50.0  87 10.0     61  9 13 13  275  296      X  X  BOT
LAN. SD.       54  74  4.0  87 10.0     61  9 13 15  396  419      X  X  BOT
LAN. SD.       55  74 13.0  87 10.0     61  9 13 17  400  430      X  X  BOT
LAN. SD.       56  74 24.5  87 10.0     61  9 13 19  380  430      X  X  BOT
LAN. SD.       57  74 28.0  84  0.0     61  9 14  1  400  477      X  X  BOT
LAN. SD.       58  74 15.0  84  0.0     61  9 14  3  573  644      X  X  BOT
LAN. SD.       59  74  1.0  84  0.0     61  9 14  7  580  622      X  X  BOT
LAN. SD.       60  73 47.5  84  0.0     61  9 14  9  250  314      X  X  BOT
LAN. SD.       61  73 48.5  82 42.5     61  9 14 12  600  622      X  X  BOT
LAN. SD.       62  74  1.0  82 42.5     61  9 14 15  650  686      X  X  BOT
LAN. SD.       63  74 15.0  82 44.0     61  9 14 18  500  793      X  X  BOT
LAN. SD.       64  74 28.5  82 47.0     61  9 14 22  587  662      X  X  BOT


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BOTTLE/CTD DATA SET NUMBER:  61-0003
YEAR:1961     VESSEL/AGENCY:  SIR JOHN A MACDONALD

   AREA          STN    LAT       LONG         DATE       CAST WATER  PARAM   INSTR INT NO
                      DEG MIN   DEG MIN    YR MO DY HR   TO  DEPTH   MEAS          HR
                                                         (M)   (M)  C  S  T

PR.REG.         41  72  8.0  93 40.0    61  9 10 13   94   117      X  X  BOT
PR.REG.         42  72  0.0  93 40.0    61  9 10 14   91   124      X  X  BOT
PR.REG.         43  71 53.0  93 40.0    61  9 10 16   75     ?      X  X  BOT
PR.REG.         44  71 47.0  93 25.0    61  9 10 17   68     ?      X  X  BOT
PR.REG.         45  71 49.0  92 37.0    61  9 10 19   71     ?      X  X  BOT
PR.REG.         46  71 51.0  91 50.0    61  9 10 20  181   229      X  X  BOT
PR.REG.         47  71 52.0  91  3.0    61  9 10 22  193   304      X  X  BOT
PR.REG.         48  71 54.0  90 17.0    61  9 11  0   49    80      X  X  BOT
PR.REG.         49  71  4.0  90  0.0    61  9 11  6   41    60      X  X  BOT
  BOOTHIA       50  70 56.0  90 40.0    61  9 11  9   57    84      X  X  BOT
  BOOTHIA       51  70 48.0  91 18.0    61  9 11 11  181   181      X  X  BOT
  BOOTHIA       52  70 50.0  91 58.0    61  9 11 13   84    96      X  X  BOT
  BOOTHIA       53  70 20.2  91 22.0    61  9 11 18  164   198      X  X  BOT
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BOOTHIA	54	70	19.5	90	40.0	61	9	11	19	35	146		X	X	BOT		
BOOTHIA	55	70	19.0	90	0.0	61	9	11	21	98	148		X	X	BOT		
BOOTHIA	56	70	18.0	89	15.0	61	9	11	23	91	139		X	X	BOT		
BOOTHIA	57	70	18.0	88	30.0	61	9	12	1	92	144		X	X	BOT		
BOOTHIA	58	70	0.0	88	40.0	61	9	12	3	92	143		X	X	BOT		
BOOTHIA	59	69	41.0	88	52.0	61	9	12	6	71	113		X	X	BOT		
COMM. B	60	69	22.0	89	4.0	61	9	12	9	49	80		X	X	BOT		
BOOTHIA	61	69	51.2	86	43.0	61	9	12	17	200	234		X	X	BOT		
BOOTHIA	62	69	54.0	85	40.0	61	9	12	21	198	230		X	X	BOT		
F&H ST.	63	69	55.0	84	20.0	61	9	12	23	84	84		X	X	BOT		
F&H ST.	64	69	50.0	83	0.0	61	9	13	12	100	161		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 61-0005
YEAR:1961 VESSEL/AGENCY: POLAR CONT. SHELF PROJECT

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
MCLURE S	1	75	32.4	121	10.7	61	4	16	20	390	398		X	X	BOT		
MCLURE S	2	75	14.0	120	59.0	61	4	17	22	440	443		X	X	BOT		
MCLURE S	3	75	1.7	121	2.0	61	4	18	20	480	482		X	X	BOT		
MCLURE S	4	74	48.4	121	18.5	61	4	19	13	520	525		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 62-0006
YEAR:1962 VESSEL/AGENCY: SIR JOHN A MACDONALD

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		HR	
LAN. SD.	1	74	26.0	87	0.0	62	8	5	23	250	428		X	X	BOT		
LAN. SD.	2	74	15.0	87	0.0	62	8	6	1	300	424		X	X	BOT		
LAN. SD.	3	74	4.0	87	0.0	62	8	6	2	400	474		X	X	BOT		
LAN. SD.	4	73	53.0	87	0.0	62	8	6	4	300	360		X	X	BOT		
PR.REG.	5	73	1.0	89	38.0	62	8	6	12	250	282		X	X	BOT		
PR.REG.	6	73	11.0	90	8.0	62	8	6	14	400	476		X	X	BOT		
PR.REG.	7	73	18.0	90	46.0	62	8	6	17	300	302		X	X	BOT		
BARROW	8	74	7.0	92	0.0	62	8	7	1	100	137		X	X	BOT		
BARROW	9	74	23.0	92	0.0	62	8	7	4	250	300		X	X	BOT		
BARROW	10	74	40.0	92	0.0	62	8	7	6	100	121		X	X	BOT		
BARROW	11	74	40.0	92	43.0	62	8	7	8	150	157		X	X	BOT		
BARROW	12	74	40.0	93	21.0	62	8	7	10	100	135		X	X	BOT		
BARROW	13	74	37.0	95	0.0	62	8	7	16	100	117		X	X	BOT		
BARROW	14	74	22.0	95	0.0	62	8	7	19	150	179		X	X	BOT		
BARROW	15	74	7.0	95	0.0	62	8	7	21	150	194		X	X	BOT		
BARROW	16	74	0.0	95	34.0	62	8	7	23	200	205		X	X	BOT		
BARROW	17	74	2.0	96	35.0	62	8	8	1	185	212		X	X	BOT		
BARROW	18	74	4.0	97	30.0	62	8	8	3	250	267		X	X	BOT		
BARROW	19	74	12.0	98	0.0	62	8	8	5	100	134		X	X	BOT		
BARROW	20	74	42.0	98	0.0	62	8	8	10	100	143		X	X	BOT		
BARROW	21	74	57.0	98	0.0	62	8	8	12	50	51		X	X	BOT		
BARROW	22	74	57.0	97	12.0	62	8	8	14	200	243		X	X	BOT		
BARROW	23	74	55.0	96	28.0	62	8	8	17	75	82		X	X	BOT		
MCLURE S	51	75	39.0	121	0.0	62	8	30	7	350	366		X	X	BOT		
MCLURE S	52	75	17.0	121	0.0	62	8	30	10	400	433		X	X	BOT		
MCLURE S	53	74	55.0	121	0.0	62	8	30	14	500	496		X	X	BOT		
MCLURE S	54	74	36.0	121	0.0	62	8	30	17	450	497		X	X	BOT		
MCLURE S	55	75	22.0	118	5.0	62	8	31	0	250	256		X	X	BOT		

MCLURE S	56	74	16.0	117	21.0	62	8	31	7	400	483		X	X	BOT		
MCLURE S	57	74	28.0	115	58.0	62	8	31	10	450	483		X	X	BOT		
VISC. MEL. SD	58	74	39.0	114	36.0	62	8	31	13	350	358		X	X	BOT		
VISC. MEL. SD	59	73	27.0	114	53.0	62	8	31	19	75	91		X	X	BOT		
VISC. MEL. SD	60	74	56.0	105	50.0	62	9	1	14	100	102		X	X	BOT		
VISC. MEL. SD	61	74	43.0	102	5.0	62	9	1	21	100	134		X	X	BOT		
FRANK. S	62	71	56.0	96	6.0	62	9	3	13	400	443		X	X	BOT		
FRANK. S	63	71	56.0	95	32.0	62	9	3	15	200	258		X	X	BOT		
FRANK. S	64	71	20.0	97	0.0	62	9	3	21	200	225		X	X	BOT		
MCLINTOC	65	71	4.0	99	0.0	62	9	5	17	100	124		X	X	BOT		
MCLINTOC	66	71	4.0	100	0.0	62	9	5	20	100	143		X	X	BOT		
MCLINTOC	67	71	4.0	100	52.0	62	9	5	22	100	124		X	X	BOT		
MCLINTOC	68	71	43.0	100	51.0	62	9	6	11	75	84		X	X	BOT		
MCLINTOC	69	72	58.0	102	54.0	62	9	6	22	330	348		X	X	BOT		
PR.REG.	70	72	0.0	93	40.0	62	9	8	15	120	124		X	X	BOT		
PR.REG.	71	71	47.0	93	25.0	62	9	8	18	85	88		X	X	BOT		
PR.REG.	72	71	51.0	91	49.0	62	9	8	21	200	229		X	X	BOT		
PR.REG.	73	71	55.0	90	36.0	62	9	9	0	250	278		X	X	BOT		
BOOTHIA	74	70	20.0	91	21.0	62	9	9	18	190	194		X	X	BOT		
BOOTHIA	75	70	19.0	90	0.0	62	9	9	21	140	146		X	X	BOT		
BOOTHIA	76	70	18.0	88	32.0	62	9	10	1	135	141		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 62-0007
YEAR:1962 VESSEL/AGENCY: LABRADOR

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ADMIR. I	24	73	40.0	84	0.0	62	10	2	18	329	356		X	X	BOT		
LAN. SD.	25	73	47.0	84	0.0	62	10	2	19	225	256		X	X	BOT		
LAN. SD.	26	73	54.0	84	0.0	62	10	2	22	620	640		X	X	BOT		
LAN. SD.	27	74	.5	84	0.0	62	10	3	1	561	649		X	X	BOT		
LAN. SD.	28	74	8.0	84	0.0	62	10	3	3	600	640		X	X	BOT		

LAN. SD.	29	74	15.0	84	0.0	62	10	3	6	560	612		X	X	BOT		
LAN. SD.	30	74	22.0	84	0.0	62	10	3	8	560	608		X	X	BOT		
LAN. SD.	31	74	29.0	84	0.0	62	10	3	11	300	348		X	X	BOT		
LAN. SD.	32	74	29.0	82	46.0	62	10	3	14	500	570		X	X	BOT		
LAN. SD.	33	74	22.0	82	42.0	62	10	3	17	600	703		X	X	BOT		
LAN. SD.	34	74	15.0	82	42.0	62	10	3	19	725	773		X	X	BOT		
LAN. SD.	35	74	8.0	82	42.0	62	10	3	20	725	735		X	X	BOT		
LAN. SD.	36	74	1.0	82	42.0	62	10	3	22	650	695		X	X	BOT		
LAN. SD.	37	73	54.0	82	43.0	62	10	4	1	650	713		X	X	BOT		
LAN. SD.	38	73	48.0	82	43.0	62	10	4	4	480	554		X	X	BOT		
LAN. SD.	39	73	48.0	81	30.0	62	10	4	6	575	622		X	X	BOT		
LAN. SD.	40	73	54.0	81	30.0	62	10	4	8	575	661		X	X	BOT		
LAN. SD.	41	74	1.0	81	30.0	62	10	4	10	677	739		X	X	BOT		
LAN. SD.	42	74	8.0	81	29.0	62	10	4	12	653	786		X	X	BOT		
LAN. SD.	43	74	15.0	81	28.0	62	10	4	15	645	805		X	X	BOT		
LAN. SD.	44	74	22.0	81	30.0	62	10	4	17	675	732		X	X	BOT		
LAN. SD.	45	74	29.0	81	25.0	62	10	4	20	591	640		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 62-0005
YEAR:1962 VESSEL/AGENCY: ARCTIC UNIT, MONTREAL

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BARROW	1	74	36.0	94	13.0	62	6	28	20	50	55		X	X	BOT		
BARROW	2	74	36.0	94	13.0	62	7	6	23	50	52		X	X	BOT		
BARROW	3	74	36.0	94	13.0	62	7	13	15	50	62		X	X	BOT		
BARROW	5	74	36.0	94	13.0	62	7	25	2	50	60		X	X	BOT		
BARROW	6	74	36.0	94	13.0	62	8	7	1	50	55		X	X	BOT		
BARROW	7	74	36.0	94	13.0	62	8	14	18	40	41		X	X	BOT		

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BOTTLE/CTD DATA SET NUMBER:  62-0005
YEAR:1962     VESSEL/AGENCY:  ARCTIC UNIT, MONTREAL

   AREA          STN    LAT      LONG        DATE      CAST WATER  PARAM   INSTR INT NO
                     DEG MIN  DEG MIN    YR MO DY HR    TO  DEPTH  MEAS          HR
                                                       (M)   (M)  C  S  T

 PR.WALES          1  72 53.0 118  1.0    62  7 25 12   20    ?       X  X  BOT
 MCLURE S          2  74 20.0 119 46.0    62  8  2 12   40    ?       X  X  BOT
 MCLURE S          3  74 17.0 120  0.0    62  8  5 12   50    ?       X  X  BOT
 MCLURE S          4  74 21.0 120 25.0    62  8  6 12   50    ?       X  X  BOT

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BOTTLE/CTD DATA SET NUMBER:  62-0005
YEAR:1962     VESSEL/AGENCY:  ARCTIC UNIT, MONTREAL

   AREA          STN    LAT      LONG        DATE      CAST WATER  PARAM   INSTR INT NO
                     DEG MIN  DEG MIN    YR MO DY HR    TO  DEPTH  MEAS          HR
                                                       (M)   (M)  C  S  T

 PR.REG.           1  72 45.0  94  4.0    62  6 23 23   33   34       X  X  BOT
 PR.REG.           2  72 45.5  94  6.0    62  6 25 19    8   10       X  X  BOT
 PR.REG.           3  72 45.3  94  6.0    62  6 27 22   34   35       X  X  BOT
 PR.REG.           4  72 45.0  94  4.0    62  6 30 17   33   34       X  X  BOT
 PR.REG.           5  72 45.5  94  4.5    62  7  3 18   43   44       X  X  BOT
 PR.REG.           6  72 45.5  94  5.5    62  7  6 22   40   41       X  X  BOT
 PR.REG.           7  72 45.0  94  4.0    62  7  7 18   32   34       X  X  BOT
 PR.REG.           8  72 45.0  94  4.0    62  7 14 21   32   34       X  X  BOT
 PR.REG.           9  72 45.0  94  4.0    62  7 21 18   45   46       X  X  BOT
 PR.REG.          10  72 45.0  94  4.0    62  7 29  0   45   46       X  X  BOT
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PR.REG.	11	72	45.0	94	4.0	62	8	4	16	40	41		X	X	BOT		
PR.REG.	12	72	45.0	94	4.0	62	8	11	17	30	31		X	X	BOT		
PR.REG.	13	72	46.0	94	17.0	62	8	13	19	61	62		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 62-0005
YEAR:1962 VESSEL/AGENCY: ARCTIC UNIT, MONTREAL

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DEASE ST	1	69	24.3	106	19.5	62	8	9	12	23	25		X	X	BOT		
DEASE ST	2	69	10.0	106	20.0	62	8	27	23	38	?		X	X	BOT		
DEASE ST	3	69	7.0	105	10.0	62	9	7	12	49	50		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 63-0004
YEAR:1963 VESSEL/AGENCY: SIR JOHN A MACDONALD

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PR.REG.	1	73	7.0	90	48.0	63	9	4	18	328	352		X	X	BOT		
PR.REG.	2	72	52.0	91	16.0	63	9	5	18	250	305		X	X	BOT		
PR.REG.	3	72	34.0	91	37.0	63	9	6	19	259	287		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 64-0001
YEAR:1964 VESSEL/AGENCY: SALVELINUS

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CORON.G	6	67	45.0	113	44.0	64	8	21	0	6	7		X	X	BOT		
DEASE ST	7	69	6.2	105	3.6	64	8	27	0	64	66		X	X	BOT		
DEASE ST	8	69	6.2	105	3.6	64	8	29	18	22	24		X	X	BOT		
DEASE ST	9	69	6.2	105	3.6	64	8	30	19	26	30		X	X	BOT		
DEASE ST	10	69	6.2	105	3.6	64	9	3	20	37	40		X	X	BOT		
DEASE ST	11	69	6.2	105	3.6	64	9	8	0	20	40		X	X	BOT		
DEASE ST	12	69	6.2	105	3.6	64	9	8	16	20	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 64-0004
YEAR:1964 VESSEL/AGENCY: SIR JOHN A MACDONALD

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
VISC. MEL. SD	1	74	52.5	101	3.0	64	8	26	21	130	142		X	X	BOT		
VISC. MEL. SD	2	74	51.5	101	41.0	64	8	27	19	150	173		X	X	BOT		
VISC. MEL. SD	3	74	56.0	102	54.0	64	8	28	14	150	171		X	X	BOT		
VISC. MEL. SD	4	74	56.2	103	52.5	64	8	28	18	100	140		X	X	BOT		
VISC. MEL. SD	6	74	51.0	106	48.0	64	8	29	20	75	104		X	X	BOT		
VISC. MEL. SD	7	74	44.0	109	36.0	64	8	30	16	130	148		X	X	BOT		
VISC. MEL. SD	8	74	42.0	109	50.0	64	8	31	17	150	162		X	X	BOT		
VISC. MEL. SD	9	75	0.0	105	26.0	64	9	3	22	200	223		X	X	BOT		
VISC. MEL. SD	10	74	59.5	105	26.5	64	9	4	0	225	239		X	X	BOT		
VISC. MEL. SD	11	74	59.0	105	28.0	64	9	4	2	225	239		X	X	BOT		
VISC. MEL. SD	12	74	58.0	105	28.0	64	9	4	4	100	228		X	X	BOT		
VISC. MEL. SD	13	74	58.0	105	29.0	64	9	4	6	175	219		X	X	BOT		
VISC. MEL. SD	14	74	57.2	105	30.5	64	9	4	8	180	215		X	X	BOT		
VISC. MEL. SD	15	74	57.0	105	31.0	64	9	4	10	175	201		X	X	BOT		
VISC. MEL. SD	16	74	56.5	100	52.0	64	9	5	1	197	219		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 65-0002
YEAR: 1965 VESSEL/AGENCY: SALVELINUS

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
DEASE ST	1	69	6.3	105	2.2	65	7	29	19	38	39		X	X	BOT	
DEASE ST	2	69	6.1	105	6.0	65	8	4	17	70	73		X	X	BOT	
DEASE ST	3	69	6.3	105	2.2	65	8	5	20	40	41		X	X	BOT	
DEASE ST	4	68	20.0	107	38.0	65	8	10	18	12	13		X	X	BOT	
CORON.G	5	67	43.6	108	4.0	65	8	11	2	200	230		X	X	BOT	
DEASE ST	6	67	9.5	107	25.0	65	8	13	18	34	35		X	X	BOT	
DEASE ST	7	67	53.8	107	49.0	65	8	18	4	110	115		X	X	BOT	
CORON.G	8	68	18.2	109	15.0	65	8	23	16	120	123		X	X	BOT	
DEASE ST	9	69	10.0	105	50.0	65	8	27	18	50	51		X	X	BOT	
DEASE ST	10	69	7.0	105	1.0	65	8	28	22	42	43		X	X	BOT	
DEASE ST	11	69	9.8	106	37.0	65	8	30	18	58	59		X	X	BOT	
DEASE ST	12	69	9.7	106	26.0	65	9	1	18	39	40		X	X	BOT	
DEASE ST	13	69	6.3	105	4.8	65	9	5	22	50	57		X	X	BOT	

BOTTLE/CTD DATA SET NUMBER: 65-0003
YEAR:1965 VESSEL/AGENCY: ICE PACK

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PR.REG.	1	72	42.0	94	30.0	65	5	18	23	49	49		X	X	BOT		
PR.REG.	2	72	43.0	94	33.0	65	5	19	20	60	60		X	X	BOT		
PR.REG.	3	72	45.0	94	35.0	65	5	20	0	16	16		X	X	BOT		
PR.REG.	4	72	47.0	94	38.0	65	5	20	20	47	47		X	X	BOT		
PR.REG.	5	72	49.0	94	40.0	65	5	21	0	34	34		X	X	BOT		
PR.REG.	6	72	50.0	94	42.0	65	5	21	19	10	10		X	X	BOT		
PR.REG.	7	72	51.0	94	45.0	65	5	23	20	22	22		X	X	BOT		
PR.REG.	8	72	42.0	94	35.0	65	5	24	22	74	74		X	X	BOT		
PR.REG.	9	72	42.0	94	38.0	65	5	26	19	88	88		X	X	BOT		
PR.REG.	10	72	41.0	94	40.0	65	5	26	22	88	88		X	X	BOT		
PR.REG.	11	72	41.0	94	42.0	65	5	27	23	47	47		X	X	BOT		
PR.REG.	12	72	40.0	94	44.0	65	5	28	19	37	37		X	X	BOT		
PR.REG.	13	72	40.0	94	46.0	65	5	28	22	38	38		X	X	BOT		
PR.REG.	14	72	39.0	94	48.0	65	5	29	18	16	16		X	X	BOT		
PR.REG.	15	72	46.0	94	40.0	65	5	30	20	42	42		X	X	BOT		
PR.REG.	16	72	45.0	94	43.0	65	6	4	0	69	69		X	X	BOT		
PR.REG.	17	72	44.0	94	45.0	65	6	4	20	103	103		X	X	BOT		
PR.REG.	18	72	43.0	94	47.0	65	6	5	19	90	90		X	X	BOT		
PR.REG.	19	72	42.0	94	49.0	65	6	5	22	24	24		X	X	BOT		
PR.REG.	20	72	41.0	94	51.0	65	6	6	18	37	37		X	X	BOT		
PR.REG.	21	72	40.0	94	53.0	65	6	6	21	22	22		X	X	BOT		
PR.REG.	22	72	39.0	94	55.0	65	6	7	0	21	21		X	X	BOT		
PR.REG.	23	72	51.0	94	47.0	65	6	8	21	74	74		X	X	BOT		
PR.REG.	24	72	50.0	94	50.0	65	6	9	0	50	50		X	X	BOT		
PR.REG.	25	72	49.0	94	53.0	65	6	11	18	26	26		X	X	BOT		
PR.REG.	26	72	48.0	94	55.0	65	6	11	20	59	59		X	X	BOT		
PR.REG.	27	72	47.0	94	57.0	65	6	11	21	83	83		X	X	BOT		
PR.REG.	28	72	46.0	94	59.0	65	6	12	0	18	18		X	X	BOT		

PR.REG.	29	72	53.0	94	47.0	65	6	12	19	19	19		X	X	BOT		
PR.REG.	30	72	54.0	94	49.0	65	6	12	21	16	16		X	X	BOT		
PR.REG.	31	72	55.0	94	51.0	65	6	12	23	13	13		X	X	BOT		
PR.REG.	32	72	55.0	94	53.0	65	6	15	19	48	48		X	X	BOT		
PR.REG.	33	72	54.0	94	56.0	65	6	15	22	79	79		X	X	BOT		
PR.REG.	34	72	53.0	94	58.0	65	6	16	0	62	62		X	X	BOT		
PEEL SD.	35	72	52.0	95	0.0	65	6	16	19	91	91		X	X	BOT		
PEEL SD.	36	72	51.0	95	2.0	65	6	16	21	24	24		X	X	BOT		
PR.REG.	37	72	56.0	94	53.0	65	6	19	19	12	12		X	X	BOT		
PR.REG.	38	72	58.0	94	55.0	65	6	19	21	13	13		X	X	BOT		
PR.REG.	39	72	58.0	94	59.0	65	7	1	19	32	32		X	X	BOT		
PEEL SD.	40	72	57.0	95	1.0	65	7	1	21	12	12		X	X	BOT		
PEEL SD.	41	72	56.0	95	3.0	65	7	1	22	62	62		X	X	BOT		
PEEL SD.	42	72	55.0	95	6.0	65	7	2	1	98	98		X	X	BOT		
PEEL SD.	43	72	54.0	95	8.0	65	7	3	18	26	26		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 65-0004
YEAR:1965 VESSEL/AGENCY: FROZEN SEA RES., IOS

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CAMB. BAY	1	69	06.0	105	4.0	65	9	?	?	55	56	X		X	HYT	360	17

BOTTLE/CTD DATA SET NUMBER: 66-0004
YEAR: 1966 VESSEL/AGENCY: USS EDISTO

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH		MEAS			HR	
										(M)	(M)	C	S	T			
LAN. SD.	12	74	30.0	82	45.0	66	8	17	?	400	713		X	X	BOT		
LAN. SD.	47	74	24.5	81	45.0	66	8	6	?	666	702		X	X	BOT		
LAN. SD.	48	74	16.0	81	31.0	66	8	6	?	765	793		X	X	BOT		
LAN. SD.	49	74	8.9	81	22.0	66	8	6	?	755	786		X	X	BOT		
LAN. SD.	50	74	2.0	81	8.0	66	8	6	?	710	748		X	X	BOT		
LAN. SD.	51	73	54.0	81	4.5	66	8	6	?	638	656		X	X	BOT		
LAN. SD.	52	73	46.2	80	56.0	66	8	6	?	584	638		X	X	BOT		
LAN. SD.	53	74	25.0	81	43.0	66	8	6	?	669	700		X	X	BOT		
LAN. SD.	54	74	16.0	81	36.0	66	8	6	?	513	784		X	X	BOT		
LAN. SD.	55	74	9.2	81	27.4	66	8	6	?	706	784		X	X	BOT		
LAN. SD.	56	74	1.9	81	8.5	66	8	7	?	691	757		X	X	BOT		
LAN. SD.	57	73	54.0	81	6.2	66	8	7	?	681	711		X	X	BOT		
LAN. SD.	58	73	46.5	81	4.0	66	8	7	?	475	508		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 66-0005
YEAR:1966 VESSEL/AGENCY: SALVELINUS

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DEASE ST	1	69	9.6	105	51.3	66	8	2	22	50	55		X	X	BOT		
DEASE ST	2	69	9.5	105	52.7	66	8	11	18	50	56		X	X	BOT		
DEASE ST	3	69	9.5	105	52.7	66	8	17	23	50	51		X	X	BOT		
DEASE ST	4	69	9.5	105	52.7	66	8	24	19	50	54		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 66-0006
YEAR:1966 VESSEL/AGENCY: ICE PACK

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
MCLURE S	1	74	38.0	115	55.0	66	4	25	20	440	451		X	X	BOT		
MCLURE S	2	74	38.0	115	55.0	66	4	26	19	425	451		X	X	BOT		
MCLURE S	3	74	38.0	115	55.0	66	4	27	18	425	451		X	X	BOT		
MCLURE S	4	74	38.0	115	55.0	66	4	29	18	100	451		X	X	BOT		
MCLURE S	5	74	38.0	115	55.0	66	4	30	18	100	451		X	X	BOT		
MCLURE S	6	74	22.0	116	48.0	66	5	4	19	400	482		X	X	BOT		
MCLURE S	7	74	48.0	115	44.0	66	5	5	23	350	398		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 67-0001
YEAR:1967   VESSEL/AGENCY: ARCTIC BIOLOGICAL STN

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DEASE ST	1	69	8.7	105	53.0	67	7	2	16	47	50		X	X	BOT		
DEASE ST	2	69	8.7	105	53.0	67	7	8	17	45	50		X	X	BOT		
DEASE ST	3	69	8.0	105	57.0	67	7	16	19	30	31		X	X	BOT		
DEASE ST	4	69	8.6	105	53.0	67	7	29	22	43	44		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 67-0001
YEAR:1967   VESSEL/AGENCY: ARCTIC BIOLOGICAL STN

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DEASE ST	1	69	9.5	105	52.7	67	8	17	13	49	54		X	X	BOT		
DEASE ST	2	69	9.5	105	52.7	67	8	24	16	50	51		X	X	BOT		
DEASE ST	3	69	9.5	105	52.7	67	9	1	15	50	51		X	X	BOT		
DEASE ST	4	69	9.5	105	52.7	67	9	7	16	50	54		X	X	BOT		
DEASE ST	5	69	9.5	105	52.7	67	9	17	15	50	54		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 67-0002
YEAR:1967 VESSEL/AGENCY: CCGS LABRADOR

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LAN. SD.	1	74	15.3	90	41.0	67	8	17	10	200	246		X	X	BOT		
LAN. SD.	43	74	9.5	81	17.0	67	9	2	22	50	?		X	X	BOT		
LAN. SD.	44	73	55.3	86	0.0	67	9	3	9	50	?		X	X	BOT		
LAN. SD.	45	74	9.2	86	0.0	67	9	3	11	500	541		X	X	BOT		
LAN. SD.	46	74	9.2	86	0.0	67	9	3	11	50	541		X	X	BOT		
LAN. SD.	47	74	25.0	86	0.0	67	9	3	13	50	?		X	X	BOT		
LAN. SD.	48	74	15.0	90	45.0	67	9	3	19	205	246		X	X	BOT		
VISC.MEL	49	74	26.2	111	42.1	67	9	5	18	266	340		X	X	BOT		
VISC.MEL	50	74	26.2	111	42.1	67	9	5	18	50	310		X	X	BOT		
VISC.MEL	51	74	20.0	111	48.0	67	9	5	21	50	453		X	X	BOT		
VISC.MEL	52	74	20.0	111	48.0	67	9	5	21	396	453		X	X	BOT		
VISC.MEL	53	74	13.0	111	12.0	67	9	6	4	509	530		X	X	BOT		
VISC.MEL	54	74	13.0	111	12.0	67	9	6	4	50	534		X	X	BOT		
VISC.MEL	55	74	43.0	108	37.0	67	9	6	20	50	?		X	X	BOT		
VISC.MEL	56	74	54.5	108	42.0	67	9	6	22	50	173		X	X	BOT		
VISC.MEL	57	74	36.0	104	30.0	67	9	7	13	50	210		X	X	BOT		
VISC.MEL	58	74	36.0	104	30.0	67	9	7	13	175	210		X	X	BOT		
BARROW	59	74	52.0	97	8.0	67	9	7	18	50	281		X	X	BOT		
BARROW	60	74	19.3	97	16.0	67	9	8	22	50	160		X	X	BOT		
BARROW	61	74	19.3	97	16.0	67	9	8	23	175	160		X	X	BOT		
BARROW	62	74	56.5	92	33.0	67	9	9	13	150	164		X	X	BOT		
BARROW	63	74	56.5	92	33.0	67	9	9	13	50	164		X	X	BOT		
BARROW	64	74	57.0	92	14.0	67	9	9	15	50	148		X	X	BOT		
BARROW	65	74	54.2	93	12.0	67	9	9	16	48	212		X	X	BOT		
BARROW	66	74	35.0	93	39.0	67	9	9	19	50	?		X	X	BOT		
BARROW	67	74	35.0	93	39.0	67	9	9	21	50	171		X	X	BOT		
BARROW	68	74	14.3	93	43.0	67	9	9	23	50	182		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 68-0001
YEAR:1968 VESSEL/AGENCY: CCGS LABRADOR

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
LAN. SD.	14	74	10.0	85	59.4	68	8	24	12	500	?		X	X	BOT		
VISC.MEL	15	74	38.5	109	47.5	68	8	30	0	175	?		X	X	BOT		
VISC.MEL	16	74	18.0	110	0.0	68	8	31	3	500	?		X	X	BOT		
VISC.MEL	17	74	27.0	113	48.0	68	8	31	11	325	?		X	X	BOT		
VISC.MEL	18	74	22.3	114	36.0	68	8	31	22	450	?		X	X	BOT		
BARROW	19	74	50.8	92	44.0	68	9	8	19	75	?		X	X	BOT		
BARROW	20	74	45.0	92	44.0	68	9	10	16	100	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 68-0002
YEAR:1968 VESSEL/AGENCY: FROZEN SEA RESEARCH, IOS

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
CAMB. BAY	1	69	6.0	105	4.0	68	2	18	?	55	56		?	X	?	1	576

BOTTLE/CTD DATA SET NUMBER: 70-0002
YEAR:1970 VESSEL/AGENCY: CSS HUDSON

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
PR.WALES	274	71	59.0	119	30.0	70	9	24	19	100	118		X	X	BOT	
PR.WALES	275	72	30.0	118	39.0	70	9	24	22	70	84		X	X	BOT	
PR.WALES	276	73	1.0	117	12.0	70	9	25	2	150	164		X	X	BOT	
PR.WALES	277	73	24.2	115	4.0	70	9	25	13	75	84		X	X	BOT	
VISC.MEL	278	73	48.1	113	45.5	70	9	25	17	448	474		X	X	BOT	
VISC.MEL	279	74	39.0	108	10.5	70	9	27	3	197	225		X	X	BOT	
VISC.MEL	280	74	41.8	105	15.5	70	9	27	17	160	173		X	X	BOT	
VISC.MEL	281	74	47.9	101	35.2	70	9	27	23	150	163		X	X	BOT	
BARROW	282	74	53.0	98	3.0	70	9	28	5	80	97		X	X	BOT	
BARROW	283	74	13.9	95	29.7	70	9	28	21	201	215		X	X	BOT	
BARROW	284	74	28.0	92	32.0	70	9	29	2	201	215		X	X	BOT	
LAN. SD.	285	74	28.6	90	4.0	70	9	29	13	250	264		X	X	BOT	
LAN. SD.	286	74	22.8	90	8.0	70	9	29	15	271	284		X	X	BOT	
LAN. SD.	287	74	16.8	90	17.0	70	9	29	17	230	244		X	X	BOT	
LAN. SD.	288	74	11.0	90	12.0	70	9	29	18	230	237		X	X	BOT	
LAN. SD.	289	74	2.5	90	30.0	70	9	29	20	120	130		X	X	BOT	
LAN. SD.	290	74	16.0	88	1.5	70	9	30	2	50	406		X	X	BOT	

BOTTLE/CTD DATA SET NUMBER: 70-0006
YEAR:1970 VESSEL/AGENCY: USCGC WESTWIND

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LAN. SD.	2	74	19.8	80	2.5	70	7	24	?	345	695		X	X	BOT		
LAN. SD.	2	74	19.8	80	2.5	70	7	24	?	600	695		X	X	BOT		
LAN. SD.	3	74	7.8	80	0.0	70	7	24	?	690	805		X	X	BOT		
LAN. SD.	3	74	7.8	80	0.0	70	7	24	?	700	805		X	X	BOT		
LAN. SD.	5	73	45.0	80	0.0	70	7	25	?	690	823		X	X	BOT		
LAN. SD.	5	73	45.0	80	0.0	70	7	25	?	700	700		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 71-0006
YEAR:1971 VESSEL/AGENCY: FROZEN SEA RESEARCH, IOS

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CAM. BAY	1	69	6.5	105	4.0	71	9	9		?	82	X		X	GLDL	24	81
CAMBRIDGE BAY	1	69	6.5	105	4.0	71	11	29		?	82	X		X	GLDL	5	37
CAMBRIDGE BAY	1	69	6.5	105	4.0	72	2	15		?	82	X		X	GLDL	24	23
CAMBRIDGE BAY	1	69	6.5	105	4.0	72	4	10		?	82	X		X	GLDL	5	23

BOTTLE/CTD DATA SET NUMBER: 72-0011
YEAR:1972 VESSEL/AGENCY: CCGS LOUIS S ST LAURENT

AREA	STN	LAT DEG MIN	LONG DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
BARROW S	1	74 21.0	90 42.0	72	9	27	?	200	200		X	X	BOT	
BARROW S	2	74 44.5	93 14.0	72	9	28	?	130	130		X	X	BOT	
BARROW S	3	74 45.0	92 44.0	72	9	28	?	100	100		X	X	BOT	
BARROW S	4	74 46.0	92 10.0	72	9	28	?	60	60		X	X	BOT	
BARROW S	5	74 6.5	91 38.0	72	9	29	?	150	150		X	X	BOT	
BARROW S	6	74 21.6	91 19.0	72	9	29	?	170	170		X	X	BOT	
BARROW S	7	74 35.0	91 23.0	72	9	29	?	100	100		X	X	BOT	

BOTTLE/CTD DATA SET NUMBER: 73-0006
YEAR:1973 VESSEL/AGENCY: INST. OCEAN SCIENCES

AREA	STN	LAT		LONG		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
BARROW STR	1	74	30.	91	21.	73	04	18	?	150	155	X		X	GLDL	1	24
BARROW STR	2	74	33.	94	19.	73	4	22	22	135	?	X		X	GLDL		
BARROW STR	3	74	28.	94	19.	73	4	22	22	143	?	X		X	GLDL		
BARROW STR	4	74	23.	94	19.	73	4	23	16	143	?	X		X	GLDL		
BARROW STR	5	74	18.	94	19.	73	4	23	17	162	?	X		X	GLDL		
BARROW STR	6	74	13.	94	19.	73	4	23	17	155	?	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 73-0005
YEAR:1973 VESSEL/AGENCY: CCGS LOUIS S ST LAURENT

AREA	STN	LAT		LONG		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
LAN. SD.	1	74	27.8	90	57.0	73	8	6	8	170	188		X	X	BOT		
LAN. SD.	2	74	19.5	90	53.0	73	8	6	10	220	229		X	X	BOT		
LAN. SD.	3	74	14.8	91	0.0	73	8	6	11	330	351		X	X	BOT		
LAN. SD.	4	74	9.2	90	58.0	73	8	6	13	220	245		X	X	BOT		
LAN. SD.	5	74	5.0	90	58.0	73	8	6	15	140	164		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 73-0008
YEAR:1973 VESSEL/AGENCY: SIR WILLIAM ALEXANDER,IOS

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW ST	B01	74	35.	91	32.	73	08	27	04	150	?	X		X	GLDL		
BARROW ST	B02	74	30.	91	39.	73	08	28	05	157	?	X		X	GLDL		
BARROW ST	B03	74	24.	91	53	73	08	28	06	307	?	X		X	GLDL		
BARROW ST	W01	74	48.	92	06.	73	08	28	19	63	?	X		X	GLDL		
BARROW ST	W02	74	48.	92	25.	73	08	28	19	98	?	X		X	GLDL		
BARROW ST	W03	74	48.	92	45.	73	08	28	20	118	?	X		X	GLDL		
BARROW ST	W04	74	48.	93	05.	73	08	28	20	162	?	X		X	GLDL		
BARROW ST	W05	74	48.	93	18.	73	08	28	21	118	?	X		X	GLDL		
BARROW ST	B04	74	36.	94	12.	73	08	29	00	102	?	X		X	GLDL		
BARROW ST	B05	74	31.	94	10.	73	08	29	01	155	?	X		X	GLDL		
BARROW ST	B06	74	23.	94	06.	73	08	29	02	166	?	X		X	GLDL		
BARROW ST	B07	74	17.	94	00.	73	08	29	03	167	?	X		X	GLDL		
BARROW ST	B08	74	10.	93	55.	73	08	29	05	123	?	X		X	GLDL		
BARROW ST	B08	74	07.	92	14.	73	08	29	07	122	?	X		X	GLDL		
BARROW ST	B10	74	14.	92	05.	73	08	29	08	207	?	X		X	GLDL		
BARROW ST	B11	74	21.	91	48.	73	08	29	10	307	?	X		X	GLDL		
BARROW ST	B12	74	30.	91	37.	73	08	30	19	150	?	X		X	GLDL		
BARROW ST	B13	74	19.	90	35.	73	08	31	01	223	?	X		X	GLDL		
BARROW ST	B14	74	19.	90	35.	73	08	31	02	203	?	X		X	GLDL		
BARROW ST	B15	74	19.	90	30.	73	08	31	02	203	?	X		X	GLDL		
BARROW ST	B16	74	19.	90	39.	73	08	31	05	207	?	X		X	GLDL		
BARROW ST	B17	74	20.	90	39.	73	08	31	14	203	?	X		X	GLDL		
BARROW ST	B18	74	20.	91	38.	73	08	31	15	203	?	X		X	GLDL		
BARROW ST	G01	74	37.	91	14.	73	09	01	07	50	?	X		X	GLDL	1	20
BARROW ST	A01	74	37.	94	15.	73	09	05	03	50	?	X		X	GLDL	1	6

BOTTLE/CTD DATA SET NUMBER: 74-0012
YEAR: 1974 VESSEL/AGENCY: GEOL. SURVEY CANADA

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CUNN. IN.	1	74	7.0	93	49.0	74	7	?	?	?	?		X	X	?		

BOTTLE/CTD DATA SET NUMBER: 74-0013
YEAR: 1974 VESSEL/AGENCY: CSS HUDSON

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW ST	110	74	10.8	93	51.2	74	8	27	21	?	?	X		X	?		
BARROW ST	132	74	9.0	96	56.1	74	8	29	21	?	?	X		X	?		
BARROW ST	134	74	8.4	96	53.9	74	8	29	22	?	?		X	X	BOT		
BARROW ST	141	73	32.0	96	14.7	74	8	30	13	?	?	X		X	?		
BARROW ST	143	73	31.9	96	13.0	74	8	30	14	?	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 74-0014
YEAR: 1974 VESSEL/AGENCY: POLAR GAS / MCGILL UNIV.

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
BARROW ST	1	74	43.0?	97	25.0	74	5	8	?	100	?		X	X	BOT	

BOTTLE/CTD DATA SET NUMBER: 75-0014
YEAR: 1975 VESSEL/AGENCY: DEF. RES. EST. OTTAWA

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
F&H ST.	1	69	52.1	84	11.5	75	4	26	17	65	67		X	X	BOT	
F&H ST.	2	69	57.4	8	57.5	75	4	28	17	200	209		X	X	BOT	
BOOTHIA	3	69	54.8	85	40.0	75	4	29	20	165	168		X	X	BOT	
F&H ST.	4	69	49.4	83	9.0	75	5	1	18	80	81		X	X	BOT	
F&H ST.	5	69	55.3	84	14.5	75	5	2	17	110	117		X	X	BOT	
F&H ST.	6	69	56.6	84	12.5	75	5	4	17	75	78		X	X	BOT	
F&H ST.	7	69	50.9	83	3.0	75	5	5	14	95	98		X	X	BOT	
F&H ST.	8	69	52.1	84	11.5	75	5	6	15	50	67		X	X	BOT	
F&H ST.	9	69	52.1	84	11.5	75	5	6	16	50	67		X	X	BOT	
F&H ST.	10	69	52.1	84	11.5	75	5	6	17	50	67		X	X	BOT	
F&H ST.	11	69	52.1	84	11.5	75	5	6	18	50	67		X	X	BOT	
F&H ST.	12	69	52.1	84	11.5	75	5	6	19	50	67		X	X	BOT	
F&H ST.	13	69	52.1	84	11.5	75	5	6	20	50	67		X	X	BOT	

F&H ST.	14	69 52.1	84 11.5	75	5	6	21	50	67		X	X	BOT
F&H ST.	15	69 52.1	84 11.5	75	5	6	22	50	67		X	X	BOT
F&H ST.	16	69 52.1	84 11.5	75	5	6	23	50	67		X	X	BOT
F&H ST.	17	69 52.1	84 11.5	75	5	7	0	50	67		X	X	BOT
F&H ST.	18	69 52.1	84 11.5	75	5	7	1	65	67		X	X	BOT
F&H ST.	19	69 52.1	85 11.5	75	5	7	1	50	67		X	X	BOT
F&H ST.	20	69 52.1	84 11.5	75	5	7	2	40	67		X	X	BOT
F&H ST.	21	69 52.1	84 11.5	75	5	7	2	50	67		X	X	BOT
F&H ST.	26	69 38.1	82 30.0	75	5	16	17	20	20		X	X	BOT

BOTTLE/CTD DATA SET NUMBER: 75-0013
YEAR: 1975 VESSEL/AGENCY: POLAR GAS PROJECT / LGL

AREA	STN	LAT DEG MIN	LONG DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
CRESWELL	4	72 45.0	94 00.0	75	8	2	?	0	7		X	X	BOT	
CRESWELL	8	72 45.0	94 00.0	75	8	2	?	10	16		X	X	BOT	
CRESWELL	7	72 45.0	94 00.0	75	8	2	?	50	88		X	X	BOT	
CRESWELL	12	72 45.0	94 0.0	75	8	3	?	0	1		X	X	BOT	
CRESWELL	13	72 45.0	94 0.0	75	8	3	?	0	1		X	X	BOT	
CRESWELL	14	72 45.0	94 0.0	75	8	3	?	2	3		X	X	BOT	
CRESWELL	42	72 45.0	94 0.0	75	8	8	?	0	9		X	X	BOT	
CRESWELL	43	72 45.0	94 0.0	75	8	8	?	5	9		X	X	BOT	
CRESWELL	43B	72 45.0	94 0.0	75	8	8	?	0	9 ?		X	X	BOT	
CRESWELL	44	72 45.0	94 0.0	75	8	8	?	10	12		X	X	BOT	
ASSIS. B.	60	74 37.0	94 30.0	75	8	19	?	0	1		X	X	BOT	
ASSIS. B.	62	74 37.0	94 30.0	75	8	19	?	10	25		X	X	BOT	
ASSIS. B.	69	74 37.0	94 30.0	75	8	25	?	40	46		X	X	BOT	

BOTTLE/CTD DATA SET NUMBER: 76-0007
YEAR:1976 VESSEL/AGENCY: DEF. RES. EST. PACIFIC

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
F&H ST.	1	69	52.2	84	15.6	76	5	25	?	?	?	CA		X	GLDL		
F&H ST.	2	69	54.0	84	15.6	76	4	30	?	?	?	CA		X	GLDL	1	24
F&H ST.	2	69	54.0	84	15.6	76	5	1	?	?	?	CA		X	GLDL		
F&H ST.	2	69	54.0	84	15.6	76	5	2	?	?	?	CA		X	GLDL		
F&H ST.	2	69	54.0	84	15.6	76	5	6	?	?	?	CA		X	GLDL		
F&H ST.	2	69	54.0	84	15.6	76	5	21	?	?	?	CA		X	GLDL		
F&H ST.	2	69	54.0	84	15.6	76	5	26	?	?	?	CA		X	GLDL		
F&H ST.	4	69	57.5	84	15.6	76	5	26	?	?	?	CA		X	GLDL		
F&H ST.	5	69	40.0	82	12.0	76	5	5	?	?	?	CA		X	GLDL		
F&H ST.	5	69	40.0	82	12.0	76	5	6	?	?	?	CA		X	GLDL		
F&H ST.	6	69	48.0	83	0.0	76	5	6	?	?	?	CA		X	GLDL		
F&H ST.	7	69	56.0	84	53.0	76	5	10	?	?	?	CA		X	GLDL		
F&H ST.	8	69	54.0	85	46.0	76	5	15	?	?	?	CA		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 76-0008
YEAR:1976 VESSEL/AGENCY: NORLANDS PETROLEUM / LGL

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LAN. SD.	1	74	27.0	82	3.0	76	7	24	?	300	686		X	X	BOT		
LAN. SD.	1	74	27.0	82	3.0	76	8	3	?	300	686		X	X	BOT		
LAN. SD.	1	74	27.0	82	3.0	76	8	17	?	650	686		X	X	BOT		
LAN. SD.	1	74	27.0	82	3.0	76	8	27	?	300	686		X	X	BOT		
LAN. SD.	1	74	27.0	82	3.0	76	9	7	?	300	686		X	X	BOT		
LAN. SD.	2	74	32.0	80	20.0	76	7	23	?	300	668		X	X	BOT		
LAN. SD.	2	74	32.0	82	20.0	76	8	4	?	300	668		X	X	BOT		
LAN. SD.	22	74	25.0	80	18.0	76	8	16	?	680	722		X	X	BOT		
LAN. SD.	2	74	32.0	80	20.0	76	8	28	?	300	668		X	X	BOT		
LAN. SD.	2	74	32.0	80	20.0	76	9	8	?	300	668		X	X	BOT		
LAN. SD.	3	74	6.0	81	30.0	76	7	22	?	300	786		X	X	BOT		
LAN. SD.	3	74	6.0	81	30.0	76	8	5	?	300	786		X	X	BOT		
LAN. SD.	3	74	6.0	81	30.0	76	8	9	?	700	786		X	X	BOT		
LAN. SD.	3	74	6.0	81	30.0	76	8	29	?	300	786		X	X	BOT		
LAN. SD.	3	74	6.0	81	30.0	76	9	11	?	300	786		X	X	BOT		
LAN. SD.	4	74	7.0	82	37.0	76	7	27	?	300	741		X	X	BOT		
LAN. SD.	4	74	7.0	82	37.0	76	8	6	?	300	741		X	X	BOT		
LAN. SD.	4	74	7.0	82	37.0	76	8	18	?	650	741		X	X	BOT		
LAN. SD.	4	74	7.0	82	37.0	76	8	29	?	300	741		X	X	BOT		
LAN. SD.	4	74	7.0	82	37.0	76	9	11	?	300	741		X	X	BOT		
LAN. SD.	5	73	43.0	81	2.0	76	7	26	?	300	503		X	X	BOT		
LAN. SD.	5	73	43.0	81	2.0	76	8	7	?	300	503		X	X	BOT		
LAN. SD.	5	73	43.0	81	2.0	76	8	21	?	500	503		X	X	BOT		
LAN. SD.	5	73	43.0	81	2.0	76	8	31	?	300	503		X	X	BOT		
LAN. SD.	5	73	43.0	81	2.0	76	9	12	?	300	503		X	X	BOT		
LAN. SD.	6	74	12.0	87	57.0	76	7	28	?	300	430		X	X	BOT		
LAN. SD.	6	74	12.0	87	57.0	76	8	8	?	300	430		X	X	BOT		
LAN. SD.	6	74	12.0	87	57.0	76	8	22	?	400	430		X	X	BOT		

LAN. SD.	6	74	12.0	87	57.0	76	9	1	?	300	430		X	X	BOT		
LAN. SD.	6	74	12.0	87	57.0	76	9	13	?	300	430		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 76-0009
YEAR:1976 VESSEL/AGENCY: GEOL. SURVEY OF CANADA

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS				HR	
												C	S	T			
BARROW S	1	74	8.0	93	50.0	76	7	3	?	?	?	X		X	YSIC		

BOTTLE/CTD DATA SET NUMBER: 76-0010
YEAR:1976 VESSEL/AGENCY: POLAR GAS / LGL

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS				HR	
												C	S	T			
BARROW S	12	74	40.0?	95	10.0	76	7	5	?	25	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 76-0011
YEAR:1976 VESSEL/AGENCY: CSS HUDSON - BIO

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
LAN. SD.	33	74	24.0	82	00.0	76	08	16	15	?	?	X		X	?	
LAN. SD.	34	74	23.8	82	03.5	76	08	16	16	?	?		X	X	BOT	
LAN. SD.	36	74	15.2	81	59.5	76	08	16	18	?	?	X		X	?	
LAN. SD.	38	74	07.0	82	00.0	76	08	16	20	?	?	X		X	?	
LAN. SD.	39	74	07.0	81	58.0	76	08	16	21	?	?		X	X	BOT	
LAN. SD.	42	73	49.8	82	00.0	76	08	17	02	?	?	X		X	?	
LAN. SD.	43	73	49.7	81	59.2	76	08	17	03	?	?		X	X	BOT	
LAN. SD.	44	73	49.9	81	57.0	76	08	17	04	?	?	X		X	?	
LAN. SD.	47	74	34.0	90	57.0	76	08	18	23	?	?	X		X	?	
LAN. SD.	49	74	30.3	90	58.0	76	08	19	00	?	?	X		X	?	
BARROW S	50	74	30.5	91	01.2	76	08	19	01	?	?		X	X	BOT	
LAN. SD.	51	74	28.1	90	46.0	76	08	19	02	?	?	X		X	?	
LAN. SD.	53	74	16.5	90	39.5	76	08	19	05	?	?	X		X	?	
LAN. SD.	54	74	16.5	90	39.4	76	08	19	05	?	?		X	X	BOT	
LAN. SD.	55	74	15.0	90	08.5	76	08	19	08	?	?	X		X	?	

BOTTLE/CTD DATA SET NUMBER: 77-0012
YEAR:1977 VESSEL/AGENCY: CCIW, BURLINGTON

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PR.WALES	41	73	22.2	115	40.3	77	3	27	?	27	27	X		X	GLDL		
PR.WALES	42	73	21.0	115	36.1	77	3	27	?	54	58	X		X	GLDL		
PR.WALES	43	73	18.9	115	32.2	77	3	27	?	61	66	X		X	GLDL		
PR.WALES	44	73	18.8	115	17.2	77	3	27	?	86	94	X		X	GLDL		
PR.WALES	45	73	17.1	115	18.5	77	3	27	?	61	62	X		X	GLDL		
MCLURE S	31	74	22.3	113	17.3	77	3	28	?	318	350	X		X	GLDL		
MCLURE S	32	74	10.4	113	43.1	77	3	28	?	276	450	X		X	GLDL		
MCLURE S	34	73	46.1	114	39.9	77	3	28	?	330	400	X		X	GLDL		
MCLURE S	35	73	35.1	115	10.8	77	3	28	?	124	124	X		X	GLDL		
PR.WALES	44	73	17.3	115	25.1	77	4	3	?	88	94	X		X	GLDL	24	13
PR.WALES	45	73	17.1	115	18.5	77	4	6	?	62	62	X		X	GLDL		
PR.WALES	44	73	17.3	115	25.1	77	4	6	?	92	94	X		X	GLDL		
PR.WALES	43	73	18.9	115	32.2	77	4	6	?	63	66	X		X	GLDL		
PR.WALES	41	73	22.3	115	40.5	77	4	6	?	27	27	X		X	GLDL		
PR.WALES	42	73	21.0	115	36.1	77	4	6	?	56	56	X		X	GLDL		
PR.WALES	45	73	17.1	115	18.5	77	4	6	?	60	62	X		X	GLDL		
PR.WALES	44	73	17.3	115	25.1	77	4	6	?	94	94	X		X	GLDL		
PR.WALES	41	73	22.2	115	40.3	77	4	6	?	26	27	X		X	GLDL		
PR.WALES	42	73	21.0	115	36.1	77	4	6	?	56	58	X		X	GLDL		
PR.WALES	43	73	18.9	115	32.2	77	4	6	?	64	66	X		X	GLDL		
MCLURE S	31	74	20.3	113	21.8	77	4	8	?	350	430	X		X	GLDL		
MCLURE S	32	74	10.4	113	43.1	77	4	8	?	351	450	X		X	GLDL		
MCLURE S	33	73	59.2	114	14.9	77	4	8	?	353	490	X		X	GLDL		
MCLURE S	34	73	43.0	114	46.1	77	4	8	?	343	343	X		X	GLDL		
MCLURE S	35	73	35.1	115	10.8	77	4	8	?	120	123	X		X	GLDL		
MCLURE S	33	73	59.2	114	14.9	77	4	8	?	352	490	X		X	GLDL		
MCLURE S	31	74	20.3	113	21.8	77	4	8	?	351	430	X		X	GLDL		
VISC.MEL	51	74	55.0	105	56.1	77	4	10	?	139	139	X		X	GLDL		

VISC.MEL	52	74	38.8	105	51.3	77	4	10	?	233	233	X		X	GLDL		
VISC.MEL	53	74	24.6	105	43.7	77	4	10	?	352	415	X		X	GLDL		
VISC.MEL	54	74	8.7	105	36.4	77	4	10	?	353	490	X		X	GLDL		
VISC.MEL	55	73	52.3	105	32.4	77	4	10	?	236	236	X		X	GLDL		
VISC.MEL	53	74	24.6	105	43.8	77	4	10	?	352	145	X		X	GLDL		
VISC.MEL	51	74	55.0	105	56.1	77	4	11	?	136	139	X		X	GLDL		
VISC.MEL	99	74	53.0	109	27.0	77	4	11	?	78	80	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0011
YEAR:1977 VESSEL/AGENCY: MCGILL UNIVERSITY

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BARROW S	1	74	20.0	96	30.0	77	5	6	?	160	160	X		X	BISS	4	?

BOTTLE/CTD DATA SET NUMBER: 77-0015
YEAR:1977 VESSEL/AGENCY: POLAR GAS / LGL

AREA	STN	LAT		LONG		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PR.REG.IN	1	71	48.0	94	32.0	77	5	?	?	40	?		X	X	BOT		
PR.REG.IN	2	71	48.0	94	32.0	77	9	2	?	40	?		X	X	BOT		

BOTTLE/CTD DATA SET NUMBER: 77-0014
YEAR:1977 VESSEL/AGENCY: CSS HUDSON

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
BARROW S	33	74	36.6	94	20.4	77	09	09	20	?	?	X		X	GLDL	
BARROW S	34	74	27.7	94	16.2	77	09	09	23	?	?	X		X	GLDL	
BARROW S	35	74	20.0	94	15.8	77	09	10	01	?	?	X		X	GLDL	
BARROW S	36	74	10.7	94	14.6	77	09	10	04	?	?	X		X	GLDL	
BARROW S	37	73	58.7	90	22.9	77	09	10	13	?	?	X		X	GLDL	
BARROW S	38	74	7.1	90	22.6	77	09	10	15	?	?	X		X	GLDL	
BARROW S	39	74	15.3	90	25.9	77	09	10	17	?	?	X		X	GLDL	
BARROW S	40	74	24.1	90	22.2	77	09	10	20	?	?	X		X	GLDL	
BARROW S	41	74	33.0	90	22.8	77	09	10	23	?	?	X		X	GLDL	
LAN. SD.	30	73	47.1	81	57.7	77	09	08	12	?	?	X		X	GLDL	
LAN. SD.	31	73	55.0	82	0.0	77	09	08	14	?	?	X		X	GLDL	
LAN. SD.	32	74	9.4	81	58.9	77	09	08	21	?	?	X		X	GLDL	
LAN. SD.	42	74	10.9	85	58.5	77	09	11	06	?	?	X		X	GLDL	
LAN. SD.	43	74	18.0	81	57.7	77	09	11	16	?	?	X		X	GLDL	
LAN. SD.	44	74	26.3	81	58.3	77	09	11	23	?	?	X		X	GLDL	

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BOTTLE/CTD DATA SET NUMBER:  77-0016
YEAR:1977     VESSEL/AGENCY:  PETRO-CANADA / LGL

   AREA          STN    LAT      LONG         DATE       CAST WATER  PARAM   INSTR INT NO
                      DEG MIN  DEG MIN     YR MO DY HR   TO  DEPTH   MEAS          HR
                                                         (M)   (M)   C  S  T

 BRIDPORT          1  75   0.0 108 45.0    77 08 05  ?   15     ?       X  X    ?
 BRIDPORT          2  75   0.0 108 45.0    77  6 13  ?   50     ?       X  X    ?
 BRIDPORT          2  75   0.0 108 45.0    77  8  6  ?   40     ?       X  X    ?
 BRIDPORT          2  75   0.0 108 45.0    77  8 27  ?   50     ?       X  X    ?
 BRIDPORT          3  75   0.0 108 45.0    77  6  9  ?   40     ?       X  X    ?
 BRIDPORT          4  75   0.0 108 45.0    77  6  9  ?   40     ?       X  X    ?
 BRIDPORT          4  75   0.0 108 45.0    77  6 14  ?   40     ?       X  X    ?
 BRIDPORT          4  75   0.0 108 45.0    77  8  7  ?   40     ?          X    ?
 BRIDPORT          5  75   0.0 108 45.0    77  6  9  ?   40     ?       X  X    ?
 BRIDPORT          5  75   0.0 108 45.0    77  6 14  ?   40     ?       X  X    ?
 BRIDPORT          5  75   0.0 108 45.0    77  8 11  ?   50     ?       X  X    ?
 BRIDPORT          5  75   0.0 108 45.0    77  8  8  ?   15     ?       X  X    ?
 BRIDPORT          6  75   0.0 108 45.0    77  6  9  ?   40     ?       X  X    ?
 BRIDPORT          6  75   0.0 108 45.0    77  6 14  ?   15     ?       X  X    ?
 BRIDPORT          6  75   0.0 108 45.0    77  8  5  ?   35     ?          X    ?
 BRIDPORT          7  75   0.0 108 45.0    77  8  8  ?   25     ?          X    ?
 BRIDPORT          8  75   0.0 108 45.0    77  8  9  ?   15     ?       X  X    ?
 BRIDPORT          9  75   0.0 108 45.0    77  8 15  ?  140     ?       X  X    ?
 BRIDPORT          9  75   0.0 108 45.0    77  8 26  ?  120     ?       X  X    ?
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BOTTLE/CTD DATA SET NUMBER: 78-0003
YEAR:1978 VESSEL/AGENCY: PETRO-CAN / PHOENIX VENTURES

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BRIDPORT	1	75	2.0	108	45.0	78	4	1	?	135	140	S		X	GLDL	2	26
BRIDPORT	2	75	2.0	108	45.0	78	5	5	?	130	140	S		X	GLDL	5	20
BRIDPORT	3	75	2.0	108	45.0	78	6	3	?	120	140	X		X	GLDL	1	09

BOTTLE/CTD DATA SET NUMBER: 78-0004
YEAR:1978 VESSEL/AGENCY: MCGILL UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BARROW S	1	74	10.0	98	34.0	78	4	21	?	170	170	X		X	AAND	1	14
BARROW S	1	74	10.0	98	34.0	78	5	4	?	170	170	X		X	AAND	1	28
BARROW S	2	74	53.2	98	22.0	78	5	25	?	170	170	X		X	AAND	1	28
BARROW S	3	74	27.5	98	4.7	78	5	28	?	170	170	X		X	AAND	1	28

BOTTLE/CTD DATA SET NUMBER: 78-0005
YEAR:1978 VESSEL/AGENCY: PETRO-CAN / ARCTIC SC.

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LAN. SD.	B6	74	21.8	82	.5	78	7	28	15	663	673	X		X	GLDL		
LAN. SD.	B1	73	48.5	82	11.0	78	8	20	12	575	603	X		X	GLDL		
LAN. SD.	B2	73	59.2	82	15.3	78	8	20	15	673	700	X		X	GLDL		
LAN. SD.	B3	74	7.0	82	17.7	78	8	20	17	711	744	X		X	GLDL		
LAN. SD.	B4	74	16.9	82	21.7	78	8	21	3	787	801	X		X	GLDL		
LAN. SD.	B5	74	25.4	82	17.4	78	8	21	12	648	695	X		X	GLDL		
LAN. SD.	B1	73	48.9	82	13.1	78	9	8	14	589	607	X		X	GLDL		
LAN. SD.	B2	73	57.8	82	12.7	78	9	8	12	672	704	X		X	GLDL		
LAN. SD.	B3	74	9.1	82	15.6	78	9	7	21	743	768	X		X	GLDL		
LAN. SD.	B4	74	15.7	82	13.4	78	9	7	19	755	777	X		X	GLDL		
LAN. SD.	B5	74	24.8	82	21.2	78	9	7	17	680	691	X		X	GLDL		
LAN. SD.	B1	73	48.8	82	12.8	78	9	20	9	554	590	X		X	GLDL		
LAN. SD.	B2	73	57.3	82	13.4	78	9	20	7	671	704	X		X	GLDL		
LAN. SD.	B3	74	7.1	82	17.3	78	9	20	5	728	771	X		X	GLDL		
LAN. SD.	B4	74	15.3	82	19.7	78	9	20	3	769	799	X		X	GLDL		
LAN. SD.	B5	74	25.5	82	22.0	78	9	20	1	682	707	X		X	GLDL		
LAN. SD.	C1	73	47.6	80	6.1	78	8	1	2	799	820	X		X	GLDL		
LAN. SD.	C2	73	58.0	80	15.0	78	7	29	7	753	786	X		X	GLDL		
LAN. SD.	C3	74	9.8	80	20.1	78	7	29	4	754	788	X		X	GLDL		
LAN. SD.	C4	74	19.7	80	22.5	78	7	29	2	675	691	X		X	GLDL		
LAN. SD.	C1	73	48.4	80	11.3	78	8	5	21	709	834	X		X	GLDL		
LAN. SD.	C2	73	59.0	80	15.8	78	8	5	18	700	787	X		X	GLDL		
LAN. SD.	C3	74	10.8	80	21.3	78	8	5	23	500	786	X		X	GLDL		
LAN. SD.	C4	74	19.3	80	23.3	78	8	4	20	500	726	X		X	GLDL		
LAN. SD.	C5	74	30.6	80	23.8	78	8	4	14	500	678	X		X	GLDL		
LAN. SD.	C.7	73	46.1	80	16.9	78	9	4	0	469	475	X		X	GLDL		
LAN. SD.	C.8	73	46.5	80	13.8	78	9	4	1	619	645	X		X	GLDL		
LAN. SD.	C.9	73	47.3	80	11.4	78	9	4	1	753	780	X		X	GLDL		

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LAN. SD.          C1  73 48.0  80  4.7     78  9  4  3  816  840    X         X GLDL
LAN. SD.          C2  73 59.5  80 17.2     78  9  6 20  784  797    X         X GLDL
LAN. SD.          C3  74  9.9  80 18.4     78  9  6 22  787  805    X         X GLDL
LAN. SD.          C4  74 19.7  80 22.4     78  9  7  1  664  693    X         X GLDL
LAN. SD.          C5  74 29.9  80 32.2     78  9  7  6  618  669    X         X GLDL
LAN. SD.          C1  73 48.1  80  9.4     78  9 20 17  823  850    X         X GLDL
LAN. SD.          C2  73 58.5  80 12.0     78  9 20 20  975? 805 ?  X         X GLDL
LAN. SD.          C3  74  8.9  80 18.0     78  9 21  0  770  804    X         X GLDL
LAN. SD.          C4  74 19.6  80 22.5     78  9 21  2  694  726    X         X GLDL
LAN. SD.          C5  74 28.2  80 34.0     78  9 19 14  653  690    X         X GLDL
LAN. SD.          CW  74 26.3  81 58.1     78  8 21 16  733  759    X         X GLDL
LAN. SD.          CW  74 26.4  82  2.4     78  9  7 14  724  754    X         X GLDL
LAN. SD.          CW  74 27.4  82  1.0     78  9 19 23  755  786    X         X GLDL
LAN. SD.          EM  74  6.0  81 29.9     78  7 28 19  724  743    X         X GLDL
LAN. SD.          EM  74  4.6  81 23.5     78  9  7 23  735  760    X         X GLDL
LAN. SD.          NB  73 43.2  81   .6     78  8 19 19  301  329    X         X GLDL
LAN. SD.          NB  73 43.4  81  3.2     78  9  8 18  500  521    X         X GLDL
LAN. SD.          NB  73 42.6  81  6.1     78  9 23  0  432  466    X         X GLDL

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BOTTLE/CTD DATA SET NUMBER:   78-0006
YEAR:1978      VESSEL/AGENCY:   FROZEN SEA RES., IOS


   AREA           STN    LAT       LONG         DATE      CAST WATER  PARAM   INSTR  INT NO
                       DEG MIN   DEG MIN    YR MO DY HR    TO  DEPTH   MEAS            HR
                                                          (M)   (M)   C  S  T

BRIDPORT            1  75 02.5 108 51.0     78  8 22 23   110     ?   X       X AAND
BRIDPORT            2  75 02.5 108 51.0     78  8 23 00    45     ?   X       X AAND
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BOTTLE/CTD DATA SET NUMBER: 78-0007
YEAR:1978 VESSEL/AGENCY: CCIW, BURLINGTON

AREA	STN	LAT DEG MIN	LONG DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW STR	821	74 40.5	95 08.8	78	03	20	15	70	80	X		X	GLDL		
BARROW STR	811	74 35.0	94 00.0	78	03	20	20	125	129	X		X	GLDL		
BARROW STR	812	74 25.5	94 00.0	78	03	20	21	145	152	X		X	GLDL		
BARROW STR	813	74 19.4	94 00.0	78	03	20	21	145	159	X		X	GLDL		
BARROW STR	821	74 40.5	95 08.8	78	03	21	14	65	65	X		X	GLDL		
BARROW STR	822	74 38.0	95 20.2	78	03	21	15	115	129	X		X	GLDL		
BARROW STR	823	74 39.7	95 56.2	78	03	21	16	135	137	X		X	GLDL		
BARROW STR	824	74 42.31	96 07.6	78	03	21	17	95	97	X		X	GLDL		
BARROW STR	829	74 36.4	97 09.4	78	03	21	20	175	175	X		X	GLDL		
BARROW STR	828	74 40.4	96 44.2	78	03	21	21	200	208	X		X	GLDL		
BARROW STR	827	74 43.2	96 20.1	78	03	21	22	150	152	X		X	GLDL		
BARROW STR	826	74 45.7	96 06.8	78	03	21	23	40	41	X		X	GLDL		
BARROW STR	825	74 49.3	95 52.5	78	03	21	23	60	61	X		X	GLDL		
BARROW STR	846	74 05.7	98 26.0	78	03	23	19	75	75	X		X	GLDL		
BARROW STR	845	74 11.0	98 36.0	78	03	23	20	126	120	X		X	GLDL		
BARROW STR	841	74 28.6	97 51.0	78	03	25	15	100	108	X		X	GLDL		
BARROW STR	842	74 27.7	98 04.9	78	03	25	15	124	125	X		X	GLDL		
BARROW STR	843	74 22.0	98 24.0	78	03	25	17	51	51	X		X	GLDL		
BARROW STR	844	74 16.6	98 41.3	78	03	25	18	65	66	X		X	GLDL		
BARROW STR	847	73 54.3	98 03.2	78	03	25	19	42	42	X		X	GLDL		
BARROW STR	856	73 40.1	96 54.2	78	03	25	20	200	213	X		X	GLDL		
BARROW STR	855	73 41.3	96 21.0	78	03	25	21	200	207	X		X	GLDL		
BARROW STR	854	73 39.2	95 52.4	78	03	25	22	182	182	X		X	GLDL		
BARROW STR	814	74 12.5	94 00.0	78	03	25	23	168	168	X		X	GLDL		
BARROW STR	835	74 52.7	98 22.9	78	03	30	15	90	93	X		X	GLDL		
BARROW STR	834	74 57.5	98 31.8	78	03	30	17	47	49	X		X	GLDL		
BARROW STR	836	74 48.4	98 17.2	78	03	30	18	33	35	X		X	GLDL		
BARROW STR	837	74 43.5	98 07.9	78	03	30	18	70	78	X		X	GLDL		

BARROW STR	838	74 39.4	97 52.6	78 03 30 19	84	85	X	X GLDL
BARROW STR	865	73 59.8	99 53.4	78 03 31 16	83	85	X	X GLDL
BARROW STR	864	74 15.3	99 58.3	78 03 31 15	115	119	X	X GLDL
BARROW STR	863	74 28.2	99 59.7	78 03 31 18	160	161	X	X GLDL
BARROW STR	862	74 42.1	99 58.6	78 03 31 19	55	56	X	X GLDL
BARROW STR	861	74 54.8	99 58.1	78 03 31 19	35	36	X	X GLDL
BARROW STR	836	74 47.8	98 22.3	78 03 31 21	40	41	X	X GLDL
BARROW STR	838	74 39.2	97 51.6	78 03 31 22	73	77	X	X GLDL
BARROW STR	839	74 36.6	97 33.5	78 03 21 22	100	101	X	X GLDL
BARROW STR	844	74 16.7	98 42.6	78 04 03 15	65	69	X	X GLDL
BARROW STR	845	74 11.0	98 34.0	78 04 03 15	107	111	X	X GLDL
BARROW STR	846	74 05.9	98 31.3	78 04 03 16	73	77	X	X GLDL
BARROW STR	841	74 28.5	97 51.4	78 04 03 18	95	102	X	X GLDL
BARROW STR	842	74 27.1	98 09.0	78 04 03 18	125	135	X	X GLDL
BARROW STR	843	74 21.5	98 27.3	78 04 03 19	15	18	X	X GLDL
BARROW STR	844	74 16.7	98 42.6	78 04 03 20	65	70	X	X GLDL
BARROW STR	845	74 11.0	98 34.0	78 04 03 20	125	128	X	X GLDL
BARROW STR	846	74 05.9	98 31.3	78 04 03 21	72	75	X	X GLDL
BARROW STR	836	74 47.9	98 20.0	78 04 06 16	57	59	X	X GLDL
BARROW STR	835	74 52.5	98 22.9	78 04 06 15	92	96	X	X GLDL
BARROW STR	834	74 57.5	98 31.5	78 04 06 15	40	42	X	X GLDL
BARROW STR	831	75 07.7	96 39.3	78 04 06 19	120	125	X	X GLDL
BARROW STR	832	75 07.7	97 06.6	78 04 06 19	170	175	X	X GLDL
BARROW STR	833	75 06.8	97 32.3	78 04 06 18	57	61	X	X GLDL
BARROW STR	830	74 51.6	97 06.9	78 04 06 20	220	225	X	X GLDL
BARROW STR	836	74 48.5	98 18.1	78 04 06 21	58	61	X	X GLDL
BARROW STR	835	74 52.4	98 24.3	78 04 06 22	90	92	X	X GLDL
BARROW STR	834	74 57.3	98 35.1	78 04 06 22	37	43	X	X GLDL
BARROW STR	837	74 43.5	98 07.1	78 04 07 15	120	126	X	X GLDL
BARROW STR	838	74 38.2	97 47.7	78 04 07 15	100	103	X	X GLDL
BARROW STR	839	74 37.2	97 42.3	78 04 07 16	65	67	X	X GLDL
BARROW STR	860	74 26.3	97 08.0	78 04 07 17	160	165	X	X GLDL
BARROW STR	859	74 19.1	97 10.3	78 04 07 17	140	145	X	X GLDL
BARROW STR	858	74 11.0	97 14.0	78 04 07 18	220	225	X	X GLDL
BARROW STR	821	74 40.3	95 08.5	78 04 07 20	130	135	X	X GLDL
BARROW STR	822	74 38.6	94 55.5	78 04 09 15	105	110	X	X GLDL
BARROW STR	823	74 39.9	95 51.9	78 04 09 16	110	112	X	X GLDL
BARROW STR	824	74 42.4	95 59.7	78 04 09 16	110?	110 ?	X	X GLDL
BARROW STR	826	74 45.6	96 06.0	78 04 09 17	180	185	X	X GLDL
BARROW STR	825	74 48.8	95 53.4	78 04 09 17	210	222	X	X GLDL

BARROW STR	857	74	07.5	97	34.6	78	04	09	20	130	136	X	X	GLDL
BARROW STR	853	74	04.5	95	15.0	78	04	11	16	170	179	X	X	GLDL
BARROW STR	852	74	10.8	95	30.0	78	04	11	17	190	198	X	X	GLDL
BARROW STR	851	74	19.5	95	30.0	78	04	11	17	165	174	X	X	GLDL
BARROW STR	850	74	27.8	95	39.9	78	04	11	18	135	140	X	X	GLDL
BARROW STR	827	74	43.0	96	23.3	78	04	11	19	190	194	X	X	GLDL
BARROW STR	828	74	40.4	96	43.5	78	04	11	20	200	210	X	X	GLDL
BARROW STR	891	75	12.9	100	44.1	78	04	14	15	90	95	X	X	GLDL
BARROW STR	892	75	11.7	101	05.5	78	04	14	16	150	155	X	X	GLDL
BARROW STR	893	75	10.0	101	34.3	78	04	14	16	125	132	X	X	GLDL
BARROW STR	894	75	08.1	102	40.9	78	04	14	17	98	107	X	X	GLDL
BARROW STR	895	75	07.5	102	59.6	78	04	14	18	135	147	X	X	GLDL
AUSTIN CH	896	75	06.8	103	25.8	78	04	14	18	93	97	X	X	GLDL
BYAM CH	886	75	17.6	105	35.2	78	04	14	20	74	77	X	X	GLDL
BYAM CH	885	75	15.9	105	15.5	78	04	14	20	73	77	X	X	GLDL
BYAM CH	884	75	14.7	104	56.9	78	04	14	21	220	225	X	X	GLDL
BYAM CH	751	74	55.0	105	56.0	78	04	15	17	130	131	X	X	GLDL
VISC. MEL.	752	74	38.6	105	51.5	78	04	15	17	180	182	X	X	GLDL
VISC. MEL.	753	74	25.0	105	43.5	78	04	15	18	200	204	X	X	GLDL
VISC. MEL.	754	74	08.5	105	40.0	78	04	15	16	205	210	X	X	GLDL
VISC, MEL.	755	73	52.9	105	30.2	78	04	15	19	175	189	X	X	GLDL
VISC. MEL.	878	73	36.0	104	11.9	78	04	15	20	75	78	X	X	GLDL
VISC. MEL.	877	73	32.2	103	31.0	78	04	15	21	100	102	X	X	GLDL
VISC. MEL.	876	73	31.8	102	38.9	78	04	15	21	150	152	X	X	GLDL
VISC. MEL.	875	73	33.8	101	54.8	78	04	15	22	75	77	X	X	GLDL
AUSTIN CH.	896	75	07.0	103	25.9	78	04	15	24	82	84	X	X	GLDL
AUSTIN CH.	895	75	07.4	102	59.2	78	04	16	00	120	124	X	X	GLDL
AUSTIN CH.	894	75	08.7	102	40.4	78	04	16	01	80	82	X	X	GLDL

BOTTLE/CTD DATA SET NUMBER: 79-0011
YEAR:1979 VESSEL/AGENCY: PETRO-CAN / ARCTIC SC.

AREA	STN	LAT		LONG		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
LAN. SD.	4C	73	59.3	80	18.0	79	7	18	13	769	813	X		X	GLDL		
LAN. SD.	5I	74	25.5	82	21.5	79	7	19	1	690	732	X		X	GLDL		
LAN. SD.	4F	74	31.0	80	30.0	79	7	21	5	616	662	X		X	GLDL		
LAN. SD.	6C	74	7.0	82	32.0	79	7	22	9	659	731	X		X	GLDL		
LAN. SD.	4A	73	49.0	80	10.2	79	7	30	4	827	872	X		X	GLDL		
LAN. SD.	4B	73	55.4	80	5.1	79	7	29	6	790	848	X		X	GLDL		
LAN. SD.	4C	73	59.0	80	16.7	79	7	29	7	739	819	X		X	GLDL		
LAN. SD.	4D	74	9.9	80	19.0	79	7	29	10	742	808	X		X	GLDL		
LAN. SD.	6E	74	7.2	80	58.4	79	8	1	4	748	801	X		X	GLDL		
LAN. SD.	6D	74	7.5	81	48.5	79	8	1	7	717	774	X		X	GLDL		
LAN. SD.	6C	74	7.9	82	26.0	79	8	1	9	705	740	X		X	GLDL		
LAN. SD.	6B	74	7.5	83	6.5	79	8	1	11	655	713	X		X	GLDL		
LAN. SD.	6A	74	7.2	83	47.1	79	8	1	12	618	666	X		X	GLDL		
LAN. SD.	5A	73	46.5	81	54.7	79	8	2	3	360	450	X		X	GLDL		
LAN. SD.	5C	73	52.0	81	44.7	79	8	2	4	615	669	X		X	GLDL		
LAN. SD.	5D	73	58.0	82	15.5	79	8	2	6	666	713	X		X	GLDL		
LAN. SD.	5E	74	4.1	82	10.0	79	8	2	7	676	721	X		X	GLDL		
LAN. SD.	5F	74	11.9	82	11.7	79	8	2	9	697	779	X		X	GLDL		
LAN. SD.	5G	74	16.8	82	5.0	79	8	2	10	748	804	X		X	GLDL		
LAN. SD.	5H	74	23.6	81	54.7	79	8	2	12	646	695	X		X	GLDL		
LAN. SD.	8E	74	26.6	86	57.4	79	8	23	1	378	429	X		X	GLDL		
LAN. SD.	8D	74	18.6	86	56.8	79	8	23	4	366	429	X		X	GLDL		
LAN. SD.	8C	74	12.0	86	58.5	79	8	23	8	383	435	X		X	GLDL		
LAN. SD.	8B	74	.3	86	54.0	79	8	23	10	398	404	X		X	GLDL		
LAN. SD.	7E	74	28.8	84	38.0	79	8	24	0	188	228	X		X	GLDL		
LAN. SD.	7D	74	18.2	84	39.3	79	8	24	3	521	585	X		X	GLDL		
LAN. SD.	7C	74	6.5	84	35.0	79	8	24	7	516	577	X		X	GLDL		
LAN. SD.	7B	73	58.8	84	38.5	79	8	24	9	557	621	X		X	GLDL		

LAN.	SD.	7A	73	49.5	84	38.5	79	8	24	10	227	292	X	X	GLDL
LAN.	SD.	6A	74	8.3	83	45.5	79	8	24	13	631	656	X	X	GLDL
LAN.	SD.	6B1	74	9.9	83	10.0	79	8	24	17	677	705	X	X	GLDL
LAN.	SD.	4D	74	10.2	80	19.8	79	9	2	0	745	780	X	X	GLDL
LAN.	SD.	5A	73	46.0	81	56.3	79	9	2	22	329	353	X	X	GLDL
LAN.	SD.	5D	73	57.6	82	21.5	79	9	3	7	654	689	X	X	GLDL
LAN.	SD.	5G	74	16.7	82	5.1	79	9	3	15	738	764	X	X	GLDL
LAN.	SD.	6A	74	7.2	83	48.4	79	9	3	24	626	660	X	X	GLDL
LAN.	SD.	6E	74	7.1	81	2.3	79	9	4	19	747	776	X	X	GLDL
LAN.	SD.	9B	73	37.8	89	10.8	79	9	5	13	370	385	X	X	GLDL
LAN.	SD.	10A	73	58.0	90	10.0	79	9	5	19	113	125	X	X	GLDL
LAN.	SD.	CH1	73	45.8	80	10.5	79	9	9	22	402	573	X	X	GLDL
LAN.	SD.	5G	74	14.0	82	5.2	79	7	18	0	773	805	X	X	GLDL
LAN.	SD.	7C	74	7.4	84	44.4	79	9	13	10	524	539	X	X	GLDL
LAN.	SD.	5H	74	23.8	81	54.6	79	7	17	23	665	707	X	X	GLDL
LAN.	SD.	5F	74	11.5	82	9.4	79	7	18	1	746	781	X	X	GLDL
LAN.	SD.	5E	74	3.0	82	10.0	79	7	18	3	689	713	X	X	GLDL
LAN.	SD.	5D	73	55.7	82	15.8	79	7	18	4	673	713	X	X	GLDL
LAN.	SD.	5B	73	46.1	82	6.4	79	7	18	6	601	658	X	X	GLDL
LAN.	SD.	4A	73	48.5	80	11.0	79	7	18	10	753	867	X	X	GLDL
LAN.	SD.	4B	73	55.3	80	4.0	79	7	18	11	778	819	X	X	GLDL
LAN.	SD.	6A	74	8.4	83	52.5	79	9	13	17	634	695	X	X	GLDL
LAN.	SD.	5I	74	25.5	82	21.5	79	7	19	3	677	732	X	X	GLDL
LAN.	SD.	6B	74	7.7	83	12.3	79	7	19	8	651	695	X	X	GLDL
LAN.	SD.	6D	74	8.3	81	48.2	79	7	19	12	748	777	X	X	GLDL
LAN.	SD.	6D	74	7.3	81	50.0	79	9	20	2	671	709	X	X	GLDL
LAN.	SD.	5C	73	52.2	81	44.7	79	9	23	1	506	638	X	X	GLDL
LAN.	SD.	6E	74	7.2	81	0.0	79	7	19	15	782	805	X	X	GLDL
LAN.	SD.	4D	74	9.9	80	19.0	79	7	19	17	780	808	X	X	GLDL
LAN.	SD.	4E	74	19.2	80	22.0	79	7	19	21	673	726	X	X	GLDL
LAN.	SD.	4F	74	30.3	80	32.3	79	7	30	4	621	662	X	X	GLDL
LAN.	SD.	4F	74	31.6	80	23.7	79	9	1	19	609	635	X	X	GLDL
LAN.	SD.	4E	74	19.5	80	23.2	79	9	1	21	666	690	X	X	GLDL
LAN.	SD.	4B	73	55.3	80	5.9	79	9	2	10	745	780	X	X	GLDL
LAN.	SD.	4A	73	49.0	80	11.0	79	9	2	13	635	810	X	X	GLDL
LAN.	SD.	5B	73	47.7	82	15.5	79	9	3	1	442	494	X	X	GLDL
LAN.	SD.	5C	73	51.8	81	35.9	79	9	3	4	618	656	X	X	GLDL
LAN.	SD.	5E	74	2.9	82	10.6	79	9	3	9	623	670	X	X	GLDL
LAN.	SD.	5F	74	11.9	82	12.2	79	9	3	13	716	748	X	X	GLDL
LAN.	SD.	5H	74	23.6	81	52.7	79	9	3	17	647	670	X	X	GLDL

LAN.	SD.	5I	74	25.1	82	21.2	79	9	3	20	647	675	X	X	GLDL
LAN.	SD.	6B	74	7.4	83	11.1	79	9	4	2	641	677	X	X	GLDL
LAN.	SD.	6C	74	7.6	82	32.3	79	9	4	13	689	715	X	X	GLDL
LAN.	SD.	6D	74	6.8	81	49.7	79	9	4	15	668	722	X	X	GLDL
LAN.	SD.	8A	73	50.5	86	58.3	79	9	5	7	179	202	X	X	GLDL
LAN.	SD.	9A	73	33.9	88	26.2	79	9	5	11	197	222	X	X	GLDL
LAN.	SD.	9C	73	42.3	89	39.3	79	9	5	15	305	320	X	X	GLDL
LAN.	SD.	9D	73	46.7	90	10.4	79	9	5	17	251	265	X	X	GLDL
LAN.	SD.	10B	74	6.0	90	.7	79	9	5	22	177	191	X	X	GLDL
LAN.	SD.	10C1	74	14.3	89	31.0	79	9	6	3	217	243	X	X	GLDL
LAN.	SD.	10D1	74	19.6	89	13.6	79	9	6	5	217	248	X	X	GLDL
LAN.	SD.	CH2	73	45.8	80	0.0	79	9	9	23	583	700	X	X	GLDL
LAN.	SD.	CH4	73	48.3	80	8.6	79	9	10	4	618	695	X	X	GLDL
LAN.	SD.	7A	73	51.7	84	46.0	79	9	13	2	345	385	X	X	GLDL
LAN.	SD.	7B	73	58.9	84	39.8	79	9	13	8	573	589	X	X	GLDL
LAN.	SD.	7D	74	18.0	84	39.8	79	9	13	12	510	595	X	X	GLDL
LAN.	SD.	7E	74	29.0	84	39.5	79	9	13	14	151	190	X	X	GLDL
LAN.	SD.	6B	74	7.2	83	10.7	79	9	13	19	671	715	X	X	GLDL
LAN.	SD.	6C	73	59.9	82	32.3	79	9	14	2	657	663	X	X	GLDL
LAN.	SD.	4F	74	31.0	80	27.4	79	9	19	13	610	636	X	X	GLDL
LAN.	SD.	4E	74	19.4	80	22.5	79	9	19	20	670	695	X	X	GLDL
LAN.	SD.	6E	74	7.6	80	59.7	79	9	19	23	731	823	X	X	GLDL
LAN.	SD.	5E	74	2.7	82	9.9	79	9	20	3	657	731	X	X	GLDL
LAN.	SD.	5D	73	58.0	82	15.3	79	9	20	4	577	722	X	X	GLDL
LAN.	SD.	5B	73	49.4	82	12.8	79	9	20	18	442	649	X	X	GLDL
LAN.	SD.	4A	73	48.4	80	11.1	79	9	22	0	679	816	X	X	GLDL
LAN.	SD.	4B	73	55.3	80	5.5	79	9	22	2	747	788	X	X	GLDL
LAN.	SD.	4C	73	58.6	80	12.4	79	9	22	4	747	780	X	X	GLDL
LAN.	SD.	5H	74	24.6	81	56.4	79	9	22	17	612	656	X	X	GLDL
LAN.	SD.	5G	74	17.0	82	6.3	79	9	22	18	689	761	X	X	GLDL
LAN.	SD.	5F	74	11.8	82	11.8	79	9	22	19	699	755	X	X	GLDL
LAN.	SD.	5A	73	46.4	81	54.2	79	9	23	0	374	415	X	X	GLDL

BOTTLE/CTD DATA SET NUMBER: 79-0014
YEAR:1979 VESSEL/AGENCY: INST. OCEAN SC.

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BRIDPORT	1	75	00.7	108	48.0	79	3	12	22	136	141	X		X	GLDL		
BRIDPORT	1	75	00.7	108	48.0	79	3	13	17	135	141	X		X	GLDL	1	16
BRIDPORT	CT-1	75	04.2	108	47.5	79	3	19	19	26	28	X		X	GLDL	0	2
BRIDPORT	CT-2	74	58.8	108	53.0	79	3	20	19	80	87	X		X	GLDL	0.5	16
BRIDPORT	CM-1	74	57.8	108	55.0	79	3	25	23	68	72	X		X	GLDL	0.1	6
BRIDPORT	CM-2	74	59.7	108	51.0	79	3	26	21	75	83	X		X	GLDL	0.1	8
BRIDPORT	CT-2	75	03.7	108	45.7	79	3	28	3	27	30	X		X	GLDL	0.1	6
BRIDPORT	CM-3	75	03.5	108	46.3	79	3	28	15	65	70	X		X	GLDL	0.1	5
BRIDPORT	3	74	59.3	108	37.0	79	3	28	21	67	70	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 79-0015
YEAR:1979 VESSEL/AGENCY: PETRO-CAN / ARCTIC SC.

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
LAN. SD.	CW01	74	30.1	81	32.0	79	7	8	18	225	?	X		X	AMS		
LAN. SD.	CW02	74	28.9	81	26.4	79	7	8	19	240	?	X		X	AMS		
LAN. SD.	CW03	74	28.1	81	32.0	79	7	8	19	240	?	X		X	AMS		
LAN. SD.	CW04	74	29.1	81	36.5	79	7	8	20	240	?	X		X	AMS		
LAN. SD.	CW05	74	29.7	81	37.0	79	7	8	20	95	?	X		X	AMS		

LAN. SD.	CW06	74 28.9	81 39.7	79	7	8	21	190	?	X		X	AMS	
LAN. SD.	CW07	74 28.0	81 39.	79	7	8	21	240	?	X		X	AMS	
LAN. SD.	CW17	74 28.1	81 50.0	79	8	8	16	210	?	X		X	AMS	
LAN. SD.	CW18	74 27.4	81 49.9	79	8	8	16	250	?	X		X	AMS	
LAN. SD.	CW19	74 26.6	81 49.9	79	8	8	17	250	?	X		X	AMS	
LAN. SD.	CW20	74 26.5	81 52.0	79	8	8	17	250	?	X		X	AMS	
LAN. SD.	CW21	74 27.1	81 53.2	79	8	8	18	250	?	X		X	AMS	
LAN. SD.	CW22	74 27.5	81 54.9	79	8	8	18	248	?	X		X	AMS	
LAN. SD.	CW23	74 28.9	81 58.5	79	8	8	19	8	?	X		X	AMS	
LAN. SD.	CW23	74 28.9	81 58.5	79	8	8	19	233	?	X		X	AMS	
LAN. SD.	CW24	74 27.5	81 58.5	79	8	8	20	250	?	X		X	AMS	
LAN. SD.	CW25	74 26.8	81 59.0	79	8	8	20	250	?	X		X	AMS	

BOTTLE/CTD DATA SET NUMBER: 80-0007
YEAR:1980 VESSEL/AGENCY: CSS HUDSON, BIO

AREA	STN	LAT DEG MIN	LONG DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
LAN. SD.	50	73 44.7	81 46.5	80	8	5	8	240	?	X		X	GLDL	
LAN. SD.	51	73 47.0	81 45.7	80	8	5	9	570	?	X		X	GLDL	
LAN. SD.	52	73 52.6	81 47.5	80	8	5	14	622	?	X		X	GLDL	
LAN. SD.	53	73 58.0	81 46.0	80	8	5	19	650	?	X		X	GLDL	
LAN. SD.	54	74 6.0	81 46.0	80	8	5	20	713	?	X		X	GLDL	
LAN. SD.	55	74 11.0	81 46.5	80	8	5	23	732	?	X		X	GLDL	
LAN. SD.	56	74 19.7	81 46.5	80	8	6	1	680	?	X		X	GLDL	
LAN. SD.	57	74 24.3	81 46.5	80	8	6	3	660	?	X		X	GLDL	
LAN. SD.	58	74 27.0	81 45.0	80	8	6	4	720	?	X		X	GLDL	
LAN. SD.	67	74 26.3	86 .3	80	8	6	13	503	?	X		X	GLDL	
LAN. SD.	66	74 28.0	85 56.5	80	8	6	16	219	?	X		X	GLDL	
LAN. SD.	60	73 53.6	86 0.0	80	8	6	23	238	?	X		X	GLDL	
LAN. SD.	61	74 1.8	86 0.0	80	8	7	2	420	?	X		X	GLDL	
LAN. SD.	62	74 6.9	86 0.0	80	8	7	4	510	?	X		X	GLDL	

LAN. SD.	63	74	11.5	86	0.0	80	8	7	5	515	?	X	X	GLDL
LAN. SD.	64	74	16.3	86	0.0	80	8	7	8	530	?	X	X	GLDL
LAN. SD.	65	74	21.0	86	0.0	80	8	7	9	550	?	X	X	GLDL
LAN. SD.	75	73	55.4	89	43.7	80	8	8	1	285	?	X	X	GLDL
LAN. SD.	74	74	1.0	89	44.0	80	8	8	3	235	?	X	X	GLDL
LAN. SD.	73	74	6.0	89	44.0	80	8	8	5	200	?	X	X	GLDL
LAN. SD.	72	74	11.0	89	43.0	80	8	8	6	220	?	X	X	GLDL
LAN. SD.	71	74	17.0	89	47.0	80	8	8	7	220	?	X	X	GLDL
LAN. SD.	70	74	20.0	89	45.0	80	8	8	10	280	?	X	X	GLDL
LAN. SD.	69	74	25.9	89	44.3	80	8	8	12	300	?	X	X	GLDL
LAN. SD.	68	74	31.0	89	45.0	80	8	8	13	215	?	X	X	GLDL
LAN. SD.	81	73	48.3	81	5.5	80	8	12	13	620	?	X	X	GLDL
BARROW S	82	74	37.9	93	39.0	80	8	13	16	95	?	X	X	GLDL
BARROW S	83	74	33.0	93	39.0	80	8	13	19	135	?	X	X	GLDL
BARROW S	84	74	28.0	93	39.0	80	8	13	21	160	?	X	X	GLDL
BARROW S	85	74	22.6	93	39.0	80	8	13	21	160	?	X	X	GLDL
BARROW S	86	74	18.0	93	39.7	80	8	13	23	160	?	X	X	GLDL
BARROW S	87	74	12.0	93	31.0	80	8	14	1	140	?	X	X	GLDL
BARROW S	88	74	40.2	93	26.0	80	8	14	7	85	?	X	X	GLDL
BARROW S	89	74	40.8	93	14.0	80	8	14	8	135	?	X	X	GLDL
BARROW S	90	74	41.0	92	55.0	80	8	14	9	140	?	X	X	GLDL
BARROW S	91	74	36.0	92	50.5	80	8	14	10	145	?	X	X	GLDL
BARROW S	92	74	29.2	92	6.8	80	8	14	12	190	?	X	X	GLDL
BARROW S	93	74	41.0	91	51.0	80	8	14	15	100	?	X	X	GLDL
LAN. SD.	94	74	31.0	89	45.5	80	8	14	21	238	?	X	X	GLDL
LAN. SD.	95	74	25.8	89	45.1	80	8	15	0	300	?	X	X	GLDL
LAN. SD.	96	74	21.0	89	46.0	80	8	15	1	300	?	X	X	GLDL
LAN. SD.	97	74	16.5	89	46.0	80	8	15	2	210	?	X	X	GLDL
LAN. SD.	98	74	10.2	89	44.0	80	8	15	3	210	?	X	X	GLDL
LAN. SD.	99	74	4.2	89	45.0	80	8	15	5	210	?	X	X	GLDL
LAN. SD.	100	73	59.5	89	42.5	80	8	15	6	250	?	X	X	GLDL
LAN. SD.	101	73	53.6	89	44.0	80	8	15	7	295	?	X	X	GLDL
PR.REG.I	102	73	48.4	89	40.5	80	8	15	8	310	?	X	X	GLDL
PR.REG.I	103	73	37.6	89	44.0	80	8	15	10	330	?	X	X	GLDL
PR.REG.I	104	73	32.6	89	47.0	80	8	15	14	365	?	X	X	GLDL
PR.REG.I	105	73	25.8	89	44.0	80	8	15	16	440	?	X	X	GLDL
PR.REG.I	106	73	21.1	89	40.0	80	8	15	18	440	?	X	X	GLDL
PR.REG.I	107	73	15.5	89	43.0	80	8	15	20	430	?	X	X	GLDL
PR.REG.I	108	73	29.8	88	31.0	80	8	16	0	128	?	X	X	GLDL
PR.REG.I	109	73	32.7	88	47.3	80	8	16	1	310	?	X	X	GLDL

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PR.REG.I         110  73 36.0  89  3.0    80  8 16  2  384    ?   X       X GLDL
PR.REG.I         111  73 39.0  89 18.0    80  8 16  3  420    ?   X       X GLDL
PR.REG.I         112  73 42.2  89 34.0    80  8 16  4  365    ?   X       X GLDL
PR.REG.I         113  73 45.1  89 50.5    80  8 16  5  310    ?   X       X GLDL
PR.REG.I         114  73 48.2  90  5.5    80  8 16  7  295    ?   X       X GLDL
PR.REG.I         115  73 49.0  90 11.0    80  8 16  ?  200    ?   X       X GLDL
LAN. SD.         126  73 44.0  81 45.0    80  8 18 20  225    ?   X       X GLDL
LAN. SD.         125  73 50.0  81 42.0    80  8 19  1  622    ?   X       X GLDL
LAN. SD.         124  73 54.8  81 46.0    80  8 19  4  631    ?   X       X GLDL
LAN. SD.         123  74  1.0  81 46.0    80  8 19  6  715    ?   X       X GLDL
LAN. SD.         122  74  6.2  81 46.0    80  8 19  9  710    ?   X       X GLDL
LAN. SD.         121  74 12.8  81 46.0    80  8 19 13  760    ?   X       X GLDL
LAN. SD.         118  74 27.0  81 43.5    80  8 20  1  719    ?   X       X GLDL
LAN. SD.         119  74 22.5  81 48.0    80  8 19 22  680    ?   X       X GLDL


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BOTTLE/CTD DATA SET NUMBER:  80-0009
YEAR:1980     VESSEL/AGENCY:  FROZEN SEA RES., IOS

    AREA         STN    LAT       LONG          DATE       CAST WATER  PARAM   INSTR INT NO
                      DEG MIN   DEG MIN     YR MO DY HR    TO  DEPTH   MEAS          HR
                                                           (M)  (M)   C  S  T

 BRIDPORT       CM10  75 01.1 108 52.9    80 03 30 18    61    65   X       X GLDL 1.0  3
 BRIDPORT       CM09  74 59.8 108 51.7    80 03 30 23    45    50   X       X GLDL .25  3
 BRIDPORT       CM08  74 59.7 108 50.9    80 03 31 13    75    80   X       X GLDL .25  3
 BRIDPORT       CM07  74 59.7 108 50.1    80 03 31 18   100   109   X       X GLDL .25  3
 BRIDPORT       CM06  74 59.5 108 49.0    80 03 31 20    20    26   X       X GLDL .25  3
 BRIDPORT       CM05  75 00.3 108 42.5    80 04 01 17    25    28   X       X GLDL .10  5
 BRIDPORT       CM04  75 02.1 108 41.3    80 04 02 15    58    62   X       X GLDL .25  3
 BRIDPORT       80-1  75 02.9 108 48.7    80 04 06 02   110   120   X       X GLDL .10  4
 BRIDPORT       80-2  75 00.9 108 48.5    80 04 07 17   130   137   X       X GLDL .50 13
 BRIDPORT       80-3  74 59.7 108 50.1    80 04 08 16   100   109   X       X GLDL .30 30
 BRIDPORT       80-4  74 58.1 108 53.0    80 04 09 16    60    64   X       X GLDL 1.0 11
 BRIDPORT       80-3  74 59.7 108 50.1    80 04 10 15   100   109   X       X GLDL
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BRIDPORT	80-2	75 00.9	108 48.5	80	04	10	17	130	137	X		X	GLDL		
BRIDPORT	80-1	75 02.9	108 48.7	80	04	10	20	100	120	X		X	GLDL		
BRIDPORT	80-5	74 59.3	108 37.6	80	04	12	17	65	74	X		X	GLDL	.50	3
BRIDPORT	CM04	75 02.1	108 41.3	80	04	22	17	58	62	X		X	GLDL	.25	3
BRIDPORT	CM05	75 00.3	108 42.3	80	04	23	16	25	28	X		X	GLDL	.25	4
BRIDPORT	CM06	74 59.5	108 49.3	80	04	23	19	22	26	X		X	GLDL	.25	3
BRIDPORT	CM07	74 59.7	108 50.1	80	04	23	21	100	109	X		X	GLDL	.30	7
BRIDPORT	CM08	74 59.7	108 50.9	80	04	24	14	80	80	X		X	GLDL	.25	3
BRIDPORT	CM09	74 59.8	108 51.7	80	04	24	16	45	50	X		X	GLDL	.25	3
BRIDPORT	CM10	75 01.1	108 52.9	80	04	24	17	61	65	X		X	GLDL	.25	3

BOTTLE/CTD DATA SET NUMBER: 81-0007
YEAR:1981 VESSEL/AGENCY: CCIW, BURLINGTON

AREA	STN	LAT	LONG	DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG MIN	DEG MIN	YR	MO	DY	HR			C	S	T			
BARROW STR	47	74 11.3	93 45.9	81	3	31	19	101	?	X		X	GLDL		
BARROW STR	46	74 13.0	93 47.8	81	3	31	20	163	?	X		X	GLDL		
BARROW STR	45	74 17.5	93 51.0	81	3	31	21	170	?	X		X	GLDL		
BARROW STR	85	74 41.6	95 48.2	81	4	01	15	165	?	X		X	GLDL		
BARROW STR	84	74 41.6	96 00.0	81	4	01	16	241	?	X		X	GLDL		
BARROW STR	83	73 41.6	96 18.9	81	4	1	17	254	?	X		X	GLDL		
BARROW STR	82	73 41.6	96 37.0	81	4	1	18	213	?	X		X	GLDL		
BARROW STR	81	73 41.6	96 18.9	81	4	1	19	226	?	X		X	GLDL		
BARROW STR	83	73 41.6	96 18.5	81	4	1	19	254	?	X		X	GLDL		
BARROW STR	33	74 29.0	95 13.6	81	4	2	15	131	?	X		X	GLDL		
BARROW STR	34	74 25.4	95 8.0	81	4	2	16	154	?	X		X	GLDL		
BARROW STR	35	74 18.9	95 58.4	81	4	2	17	184	?	X		X	GLDL		
BARROW STR	36	74 12.3	94 49.0	81	4	2	19	200	?	X		X	GLDL		
BARROW STR	37	74 07.5	94 42.0	81	4	2	20	183	?	X		X	GLDL		
BARROW STR	32	74 35.5	95 11.8	81	4	2	21	106	?	X		X	GLDL		
BARROW STR	31	74 38.4	95 11.8	81	4	2	22	104	?	X		X	GLDL		

BARROW STR	74	75	05.5	96	42.2	81	4	6	14	105	?	X	X	GLDL
BARROW STR	73	76	06.5	96	57.4	81	4	6	16	189	?	X	X	GLDL
BARROW STR	11	74	58.7	97	52.0	81	4	6	18	59	?	X	X	GLDL
BARROW STR	85	73	41.6	95	48.2	81	4	8	15	167	?	X	X	GLDL
BARROW STR	84	73	41.6	96	00.0	81	4	8	15	253	?	X	X	GLDL
BARROW STR	82	73	41.6	96	37.0	81	4	8	16	212	?	X	X	GLDL
BARROW STR	83	73	41.6	96	18.5	81	4	8	17	254	?	X	X	GLDL
BARROW STR	81	73	41.6	96	49.0	81	4	8	18	227	?	X	X	GLDL
BARROW STR	27	74	02.3	95	23.8	81	4	8	20	196	?	X	X	GLDL
BARROW STR	26	74	08.8	95	41.0	81	4	8	20	161	?	X	X	GLDL
BARROW STR	31	74	38.4	95	01.1	81	4	8	22	105	?	X	X	GLDL
BARROW STR	85	74	41.6	95	48.2	81	4	17	15	163	?	X	X	GLDL
BARROW STR	84	74	41.6	96	00.0	81	4	17	16	242	?	X	X	GLDL
BARROW STR	81	74	41.6	96	49.0	81	4	17	17	300	?	X	X	GLDL
BARROW STR	82	74	41.6	96	37.0	81	4	17	18	212	?	X	X	GLDL
BARROW STR	83	74	41.6	96	18.5	81	4	17	19	255	?	X	X	GLDL
BARROW STR	37	74	07.5	94	42.0	81	4	17	21	124	?	X	X	GLDL
BARROW STR	36	74	12.3	94	49.0	81	4	17	21	172	?	X	X	GLDL
BARROW STR	35	74	18.9	94	58.4	81	4	17	22	178	?	X	X	GLDL
BARROW STR	34	74	25.4	95	08.0	81	4	17	22	187	?	X	X	GLDL
BARROW STR	33	74	29.0	95	13.6	81	4	17	23	164	?	X	X	GLDL
BARROW STR	32	74	35.5	95	11.8	81	4	17	23	111	?	X	X	GLDL
BARROW STR	31	74	38.4	95	01.1	81	4	18	00	104	?	X	X	GLDL
BARROW STR	41	74	36.2	94	02.8	81	4	18	14	84	?	X	X	GLDL
BARROW STR	42	74	34.0	94	01.1	81	4	18	15	126	?	X	X	GLDL
BARROW STR	43	74	29.0	93	57.5	81	4	18	15	152	?	X	X	GLDL
BARROW STR	44	74	24.1	93	54.7	81	4	18	16	146	?	X	X	GLDL
BARROW STR	45	74	17.5	93	51.0	81	4	18	16	159	?	X	X	GLDL
BARROW STR	46	74	13.3	93	38.4	81	4	18	17	167	?	X	X	GLDL
BARROW STR	47	74	11.3	93	45.9	81	4	18	17	38	?	X	X	GLDL
BARROW STR	17	74	08.3	97	51.9	81	4	19	15	103	?	X	X	GLDL
BARROW STR	18	74	04.4	97	21.0	81	4	19	16	264	?	X	X	GLDL
BARROW STR	16	74	12.3	97	49.3	81	4	19	16	174	?	X	X	GLDL
BARROW STR	15	74	21.6	97	43.0	81	4	19	18	130	?	X	X	GLDL
BARROW STR	14	74	26.9	97	39.6	81	4	19	18	118	?	X	X	GLDL
BARROW STR	13	74	41.6	97	09.0	81	4	19	19	330	?	X	X	GLDL
BARROW STR	12	74	51.8	97	34.6	81	4	19	20	308	?	X	X	GLDL
BARROW STR	11	74	51.8	97	52.0	81	4	19	21	159	?	X	X	GLDL
BARROW STR	71	75	08.5	97	27.3	81	4	19	21	83	?	X	X	GLDL
BARROW STR	72	75	07.2	97	12.0	81	4	19	22	174	?	X	X	GLDL

BARROW STR	73	75 06.5	96 57.4	81	4	19	23	204	?	X	X GLDL
BARROW STR	74	75 05.5	96 42.2	81	4	19	23	200	?	X	X GLDL
BARROW STR	67	74 09.5	92 47.5	81	4	20	15	119	?	X	X GLDL
BARROW STR	66	74 12.0	92 42.0	81	4	20	16	161	?	X	X GLDL
BARROW STR	65	74 17.8	92 30.0	81	4	20	17	175	?	X	X GLDL
BARROW STR	64	74 24.4	92 16.5	81	4	20	17	280	?	X	X GLDL
BARROW STR	63	74 30.7	92 03.3	81	4	20	18	282	?	X	X GLDL
BARROW STR	62	74 37.0	91 50.0	81	4	20	19	187	?	X	X GLDL
BARROW STR	61	74 39.9	91 43.2	81	4	20	19	111	?	X	X GLDL
BARROW STR	53	74 34.0	92 57.8	81	4	20	21	169	?	X	X GLDL
BARROW STR	54	74 29.6	92 39.6	81	4	20	22	187	?	X	X GLDL
BARROW STR	52	74 37.4	93 12.8	81	4	20	22	128	?	X	X GLDL
BARROW STR	51	74 39.5	93 21.4	81	4	20	23	124	?	X	X GLDL
BARROW STR	21	74 47.6	95 55.0	81	4	21	14	143	?	X	X GLDL
BARROW STR	22	74 41.3	96 18.9	81	4	21	15	221	?	X	X GLDL
BARROW STR	23	74 32.7	96 15.0	81	4	21	15	193	?	X	X GLDL
BARROW STR	55	74 41.0	92 37.0	81	4	25	15	133	?	X	X GLDL
BARROW STR	24	74 24.8	96 24.5	81	4	25	16	192	?	X	X GLDL
BARROW STR	25	74 13.0	96 24.5	81	4	25	17	189	?	X	X GLDL
BARROW STR	19	73 57.0	96 15.0	81	4	25	18	219	?	X	X GLDL
BARROW STR	95	74 52.8	92 11.0	81	4	25	20	86	?	X	X GLDL
BARROW STR	94	74 52.8	92 25.8	81	4	25	21	142	?	X	X GLDL
BARROW STR	93	74 52.8	92 43.0	81	4	25	21	131	?	X	X GLDL
BARROW STR	92	74 52.8	92 06.0	81	4	25	22	184	?	X	X GLDL
BARROW STR	91	74 52.8	92 20.0	81	4	25	22	137	?	X	X GLDL

11.2 CURRENT METER DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source. Multiple meters are differentiated as 1.1, 1.2, 1.3, for example.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length, days of both speed and direction data.
DT (MN)	Sampling rate in minutes.
DEPTHS-INSTR/WATER	Instrument and water depth, in metres.
INSTR TYPE	Instrument type: AAND - Aanderaa RCM-4 CUSH - Cushing electromagnetic M-MC - Marsh McBirney electromagnetic ENDE - Endeco HYDR - Hydrowerstatten BR - Braincon type 206 meter
ADDIT SENSOR	Other parameters measured - pressure, temperature, conductivity. Each measurement is qualified by one of the following: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings O - zero or obviously bad readings L - frequent speeds below the stall speed

Blank entries indicate unavailable or inapplicable data.
? implies suspect data, but the only/best available.

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CURRENT METER DATA, SET NUMBER:  73-0006
YEAR:1973     VESSEL/AGENCY:  INST. OCEAN SC., SIDNEY

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

 BARROW STRAIT     1 74 30.     91 21.     73 04 20 73 04 27  6   2   153   155  AAND

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CURRENT METER DATA, SET NUMBER:  74-0013
YEAR:1974     VESSEL/AGENCY:  HUDSON / BEDFORD INST OF OCEAN.

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

 LANCASTER SD.     1 73 45.0   84 48.6     74 08 16 74 09 11 27   5    10   140  HYDR
 LANCASTER SD.    50 74 38.5   88 46.2     74 08 17 74 09 12 27   5    10    48  HYDR
```

CURRENT METER DATA, SET NUMBER: 76-0007
YEAR:1976 VESSEL/AGENCY: DEF. RES. EST. PACIFIC, VICTORIA

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
FURY&HECLA	1.1	69	52.2	84	15.6	76	04	26	76	05	27	21	?	11	82	M-MC	X		
FURY&HECLA	1.2	69	52.2	84	15.6	76	04	23	76	05	27	21	?	40	82	BR			
FURY&HECLA	1.3	69	52.2	84	15.6	76	04	23	76	05	27	23	?	60	82	BR		X	
FURY&HECLA	2.1	69	54.0	84	15.6	76	04	24	76	05	27	30	?	7	153	M-MC			
FURY&HECLA	2.2	69	54.0	84	15.6	76	04	24	76	05	27	29	?	11	153	M-MC			
FURY&HECLA	2.3	69	54.0	84	15.6	76	04	25	76	05	27	32	?	40	153	BR		X	
FURY&HECLA	2.4	69	54.0	84	15.6	76	04	25	76	05	27	24	?	60	153	BR	X	X	
FURY&HECLA	2.5	69	54.0	84	15.6	76	04	25	76	05	27	32	?	100	153	BR		X	
FURY&HECLA	2.6	69	54.0	84	15.6	76	04	25	76	05	27	32	?	140	153	BR		X	
FURY&HECLA	3.1	69	55.7	84	15.6	76	04	25	76	05	26	30	?	11	82	M-MC			
FURY&HECLA	3.2	69	55.7	84	15.6	76	04	25	76	05	26	30	?	40	82	BR			
FURY&HECLA	4.1	69	57.5	84	15.6	76	04	27	76	05	26	19	?	11	78	M-MC			
FURY&HECLA	4.2	69	57.5	84	15.6	76	04	27	76	05	26	18	?	40	78	BR		X	
FURY&HECLA	4.3	69	57.5	84	15.6	76	?	?	76	?	?	?	?	60	78	BR			

```
--------------------------------------------------------------------------------

CURRENT METER DATA, SET NUMBER:  77-0013
YEAR:1977     VESSEL/AGENCY:  INST. OCEAN SC., SIDNEY

   AREA          STN   LAT       LONG        START     STOP   EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C


 LANCASTER SD.   1.1 74 05.5   81 11.0    77 07 28 77 10 01 60  10    39   772  AAND   X
 LANCASTER SD.   1.2 74 05.5   81 11.0    77 07 28 77 10 01 65  10   203   772  AAND   X
 LANCASTER SD.   1.3 74 05.5   81 11.0    77 07 28 77 10 01 65  10   554   772  AAND   X
 LANCASTER SD.   3.1 74 07.4   82 13.0    77 07 29 77 09 29 62  10    51   741  AAND X X
 LANCASTER SD.   3.2 74 07.4   82 13.0    77 07 29 77 09 29 62  10   216   741  AAND X X
 LANCASTER SD.   3.3 74 07.4   82 13.0    77 07 29 77 09 29 62  10   550   741  AAND X X
 LANCASTER SD.   4.1 73 51.0   82 13.0    77 07 28 77 09 29 63  10    35   724  AAND X X
 LANCASTER SD.   4.2 73 51.0   82 13.0    77 07 28 77 09 29 63  10   200   724  AAND X X
 LANCASTER SD.   4.3 73 51.0   82 13.0    77 07 28 77 09 09 63  10   549   724  AAND X X

--------------------------------------------------------------------------------

CURRENT METER DATA, SET NUMBER:  77-0012
YEAR:1977     VESSEL/AGENCY:  CCIW, BURLINGTON

   AREA          STN   LAT       LONG        START     STOP   EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C


 MCLURE STRAIT    31 74 20.26 113 21.84   77 04 03 77 05 07 31  10     6    ?    ?
 MCLURE STRAIT    34 73 42.96 114 46.05   77 04 03 77 05 12 32  10     6    ?    ?
 PR. WALES       2.1 73 20.98 115 36.06   77 04 01 77 05 11 40  10     6    ?    ?
 PR. WALES       2.2 73 20.98 115 36.06   77 04 01 77 05 11 40  10    34    ?    ?
 PR. WALES       4.1 73 17.28 115 25.12   77 04 01 77 06 02 10  10     6    ?    ?
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CURRENT METER DATA, SET NUMBER:  77-0017
YEAR:1977     VESSEL/AGENCY:  BEDFORD INSTITUTE OF OCEAN., DARTMOUTH

    AREA          STN   LAT        LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN    DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                  P T C

 CORON GULF       264 68 28.06 111 01.18   77 08 22 77 09 03 11  20      5    44  AAND X X

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CURRENT METER DATA, SET NUMBER:  78-0003
YEAR:1978     VESSEL/AGENCY:  PETRO-CANADA, CALGARY

    AREA          STN   LAT        LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN    DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                  P T C

 BRIDPORT INLET     1 75 02.0   108 45.0   78 02 12?78 04 18?65? 10     12     ?  AAND
 BRIDPORT INLET     2 75 02.0   108 45.0   78 02 12?78 04 18?65? 10     12     ?  AAND   X
 BRIDPORT INLET     3 75 02.0   108 45.0   78 02 12?78 04 18?65? 10     12     ?  AAND
 BRIDPORT INLET     4 75 02.0   108 45.0   78 02 12?78 04 18?65? 10     60     ?  AAND
```

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CURRENT METER DATA, SET NUMBER:  78-0005
YEAR:1978     VESSEL/AGENCY:  PETRO-CANADA, CALGARY

    AREA           STN   LAT      LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                       DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 LANCASTER SD.  4.1 74 29.80  80 38.00   78 08 04 78 09 18 20   10    46     ?   AAND X X X
 LANCASTER SD.  4.2 74 29.80  80 38.00   78 08 04 78 09 18 44   10   254     ?   AAND X X X
 LANCASTER SD.  4.3 74 29.80  80 38.00   78 08 04 78 09 18 40   10   495     ?   AAND X X X
 LANCASTER SD.  5.1 74 09.23  80 19.09   78 08 05 78 09 20 24   10   268     ?   AAND X X X
 LANCASTER SD.  5.2 74 09.23  80 19.09   78 08 05 78 09 20 23   10   519     ?   AAND X X X
 LANCASTER SD.  5.3 74 09.23  80 19.09   78 08 05 78 09 20 40   10   770     ?   AAND X X X
 LANCASTER SD.  6.1 73 47.10  80 05.10   78 08 05 78 09 20 45   10   293     ?   AAND X X X
 LANCASTER SD.  6.2 73 47.10  80 05.10   78 08 05 78 09 20 46   10   237     ?   AAND X X X
 LANCASTER SD.  6.3 73 47.10  80 05.10   78 08 05 78 09 20 46   10   486     ?   AAND X X X

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CURRENT METER DATA, SET NUMBER:  78-0007
YEAR:1978     VESSEL/AGENCY:  CCIW, BURLINGTON

    AREA           STN   LAT      LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                       DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 BARROW STRAIT   28 74 40.30  96 43.80   78 03 10 78 04 12 33    5     4   210   AAND   X X
 BARROW STRAIT   28 74 40.30  96 43.80   78 03 10 78 04 02 23    5    50   210   AAND   X X
 BARROW STRAIT   35 74 52.80  98 17.00   78 03 11 78 04 22 42   10     4    92   AAND   0 0
 BARROW STRAIT   35 74 52.80  98 17.00   78 03 11 78 04 22 42   10    50    92   AAND   X X
 BARROW STRAIT   38 74 38.30  97 58.20   78 03 13 78 04 29 16   10     4    88   AAND   X X
```

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
BARROW STRAIT	38	74	38.30	97	58.20	78	03	13	78	04	22	40	10	50	88	AAND		X	X
BARROW STRAIT	42	74	26.70	900	06.40	78	03	11	78	04	23	42	10	4	137	AAND		X	X
BARROW STRAIT	42	74	26.70	900	06.40	78	03	11	78	04	12	32	10	50	137	AAND		X	X
BARROW STRAIT	45	74	10.00	900	34.00	78	03	11	78	04	23	42	10	4	126	AAND		X	X
BARROW STRAIT	45	74	10.00	900	34.00	78	03	11	78	04	23	42	10	50	126	AAND		X	X
AUSTIN CH	82	75	27.30	103	05.40	78	03	15	78	04	26	42	10	5	180	AAND		X	X
AUSTIN CH	82	75	27.30	103	05.40	78	03	15	78	04	26	42	10	50	180	AAND		O	O
AUSTIN CH	92	75	11.10	101	06.70	78	03	15	78	04	26	?	10	4	155	AAND		X	X
AUSTIN CH	95	75	07.40	102	59.60	78	03	15	78	04	19	?	10	5	147	AAND		C	C

CURRENT METER DATA, SET NUMBER: 79-0012
YEAR:1979 VESSEL/AGENCY: POLAR GAS PIPELINE SURVEY

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
DOL.&UN.STRAIT	1.1	68	27.02	113	15.08	79	08	28	79	09	21	25	?	10	32	AAND	X	X	X
DOL.&UN.STRAIT	1.2	68	27.02	113	15.08	79	08	28	79	09	21	25	?	27	32	AAND		X	X
DOL.&UN.STRAIT	2.1	68	26.42	113	21.20	79	09	10	79	09	24	14	?	11	100	AAND	X	X	X
DOL.&UN.STRAIT	2.2	68	26.42	113	21.20	79	09	10	79	09	24	14	?	95	100	AAND		X	X
DOL.&UN.STRAIT	3.1	68	25.32	113	29.40	79	09	11	79	09	24	13	?	11	78	AAND	X	X	X
DOL.&UN.STRAIT	3.2	68	25.32	113	29.40	79	09	11	79	09	24	13	?	73	78	AAND		X	X
DOL.&UN.STRAIT	4.1	68	23.78	113	42.02	79	09	09	79	09	24	15	?	10	104	AAND	X	X	X
DOL.&UN.STRAIT	4.2	68	23.78	113	42.02	79	09	09	79	09	24	15	?	99	104	AAND		X	X
DOL.&UN.STRAIT	6.1	68	22.30	113	53.47	79	09	09	79	09	24	15	?	8	57	AAND	X	X	X
DOL.&UN.STRAIT	6.2	68	22.30	113	53.47	79	09	09	79	09	24	15	?	52	57	AAND		X	X

CURRENT METER DATA, SET NUMBER: 79-0013
YEAR:1979 VESSEL/AGENCY: POLAR GAS PROJECT

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
MCLURE STRAIT	1.1	73	23.73	114	23.0	79	02	25	79	04	19	54	?	3	55	AAND	
MCLURE STRAIT	2.1	73	38.55	114	14.0	79	03	04	79	04	18	46	?	3	245	AAND	
MCLURE STRAIT	2.2	73	38.55	114	14.0	79	03	04	79	04	18	46	?	95	245	AAND	
MCLURE STRAIT	2.3	73	38.55	114	14.0	79	03	04	79	04	18	46	?	242	245	AAND	
MCLURE STRAIT	3.1	73	53.75	113	53.5	79	03	06	79	04	18	44	?	3	505	AAND	
MCLURE STRAIT	3.2	73	53.75	113	53.5	79	03	06	79	04	18	44	?	255	505	AAND	
MCLURE STRAIT	3.3	73	53.75	113	53.5	79	03	06	79	04	18	44	?	502	505	AAND	
MCLURE STRAIT	4.1	74	10.0	113	37.25	79	03	11	79	04	19	40	?	3	490	AAND	
MCLURE STRAIT	4.2	74	10.0	113	37.25	79	03	11	79	04	19	40	?	245	490	AAND	
MCLURE STRAIT	4.3	74	10.0	113	37.25	79	03	11	79	04	19	40	?	487	490	AAND	
MCLURE STRAIT	5.1	74	24.8	113	15.0	79	03	13	79	04	18	37	?	3	38	AAND	
MCLURE STRAIT	5.2	74	24.8	113	15.0	79	03	13	79	04	18	37	?	18	38	AAND	
MCLURE STRAIT	5.3	74	24.8	113	15.0	79	03	13	79	04	18	37	?	35	38	AAND	

CURRENT METER DATA, SET NUMBER: 79-0014
YEAR:1979 VESSEL/AGENCY: FROZEN SEA RES., IOS, SIDNEY

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
BRIDPORT INLET	1.1	74	57.83	108	55.0	79	03	25	79	07	30	127	20	20	?	?		X	X
BRIDPORT INLET	1.2	74	57.83	108	55.0	79	03	25	79	07	05	102	20	50	?	?		X	X
BRIDPORT INLET	2.1	74	59.75	108	51.0	79	03	26	79	07	30	126	20	20	?	?		X	X
BRIDPORT INLET	2.2	74	59.75	108	51.0	79	03	26	79	07	05	101	20	50	?	?		X	X
BRIDPORT INLET	3.1	75	03.50	108	46.33	79	04	03	79	07	30	118	20	20	?	?		X	X
BRIDPORT INLET	3.2	75	03.50	108	46.33	79	04	03	79	07	05	93	20	50	?	?		X	X

CURRENT METER DATA, SET NUMBER: 79-0011
YEAR:1979 VESSEL/AGENCY: PETRO-CANADA, CALGARY

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
LANCASTER SD.	G.1	74	26.3	81	55.1	79	07	23	79	09	22	61	10	42	724	AAND	X	X	X
LANCASTER SD.	G.2	74	26.3	81	55.1	79	07	23	79	09	22	61	10	233	724	AAND	X	X	X
LANCASTER SD.	G.3	74	26.3	81	55.1	79	07	23	79	09	22	04	10	504	724	AAND	X	X	X
LANCASTER SD.	H.1	74	07.04	82	10.97	79	08	01	79	09	22	52	10	41	730	AAND	X	X	X
LANCASTER SD.	H.2	74	07.04	82	10.97	79	08	01	79	09	22	52	10	250	730	AAND	O	X	X
LANCASTER SD.	H.3	74	07.04	82	10.97	79	08	01	79	09	22	52	10	481	730	AAND	X	X	X
LANCASTER SD.	I.1	73	49.95	82	07.43	79	08	01	79	09	22	52	10	35	705	AAND	O	X	X
LANCASTER SD.	I.2	73	49.95	82	07.43	79	08	01	79	09	22	52	10	510	705	AAND	X	X	X

LANCASTER SD.	J.1	74 09.04	82 07.43	79	08	02	79	09	20	50	10	37	724	AAND	X	X	X
LANCASTER SD.	J.2	74 09.04	82 07.43	79	08	02	79	09	20	50	10	250	724	AAND	O	X	X
LANCASTER SD.	J.3	74 09.04	82 07.43	79	08	02	79	09	20	50	10	494	724	AAND	X	X	X
LANCASTER SD.	K.1	74 07.87	83 21.23	79	08	02	79	08	11	8	10	49	664	AAND	X	X	X
LANCASTER SD.	K.2	74 07.87	83 21.23	79	08	02	79	08	11	8	10	264	664	AAND	X	X	X
LANCASTER SD.	K.3	74 07.87	83 21.23	79	08	02	79	08	11	49	10	517	664	AAND	X	X	X
LANCASTER SD.	L.1	73 51.88	80 11.32	79	07	29	79	09	18	56	10	50	832	AAND	X	X	X
LANCASTER SD.	L.2	73 51.88	80 11.32	79	07	29	79	09	18	51	10	507	832	AAND	X	X	X
LANCASTER SD.	M.1	73 46.50	80 14.90	79	07	28	79	09	21	55	10	64	540	AAND	X	X	X
LANCASTER SD.	M.2	73 46.50	80 14.90	79	07	28	79	09	21	55	10	243	540	AAND	X	X	X
LANCASTER SD.	M.3	73 46.50	80 14.90	79	07	28	79	09	21	55	10	476	540	AAND	X	X	X

CURRENT METER DATA, SET NUMBER: 80-0009
YEAR:1980 VESSEL/AGENCY: FROZEN SEA RES., IOS, SIDNEY

AREA	STN	LAT	LONG	START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG MIN	DEG MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
BRIDPORT INLET	4	75 02.10	108 41.33	80	03	27	80	04	28	32	15	12	?	AAND		X	X
BRIDPORT INLET	5	75 00.30	108 42.33	80	03	27	80	04	28	31	15	12	?	AAND		X	X
BRIDPORT INLET	6	74 59.57	108 49.30	80	03	27	80	04	28	31	15	12	?	AAND		X	X
BRIDPORT INLET	7.1	74 59.67	108 50.05	80	03	27	80	04	28	31	15	50	?	AAND		X	X
BRIDPORT INLET	7.2	74 59.67	108 50.05	80	03	28	80	04	28	31	15	12	?	AAND		X	X
BRIDPORT INLET	8.1	74 59.73	108 50.92	80	03	28	80	04	28	30	15	50	?	AAND		X	X
BRIDPORT INLET	8.2	74 59.73	108 50.92	80	03	28	80	04	28	31	15	12	?	AAND		X	X
BRIDPORT INLET	9	74 59.83	108 51.67	80	03	28	80	04	28	31	15	12	?	AAND		X	X
BRIDPORT INLET	10	75 01.13	108 52.87	80	03	29	80	04	29	31	15	12	?	AAND		X	X

CURRENT METER DATA, SET NUMBER: 81-0007
YEAR:1981 VESSEL/AGENCY: CCIW, BURLINGTON

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
BARROW STRAIT	81	73	41.6	96	49.0	81	03	29	81	04	27	?	?	10	225	AAND	
BARROW STRAIT	82	73	41.6	96	37.0	81	03	28	81	04	26	?	?	10	230	AAND	
BARROW STRAIT	82	73	41.6	96	37.0	81	03	28	81	04	26	?	?	50	230	AAND	
BARROW STRAIT	82	73	41.6	96	37.0	81	03	28	81	04	26	?	?	100	230	AAND	
BARROW STRAIT	82	73	41.6	96	37.0	81	03	28	81	04	26	?	?	200	230	AAND	
BARROW STRAIT	83	73	41.6	96	18.5	81	03	29	81	04	27	?	?	10	254	AAND	
BARROW STRAIT	84	73	41.6	96	00.0	81	03	23	81	04	24	?	?	10	245	AAND	
BARROW STRAIT	84	73	41.6	96	00.0	81	03	23	81	04	24	?	?	50	245	AAND	
BARROW STRAIT	84	73	41.6	96	00.0	81	03	23	81	04	24	?	?	98	245	AAND	
BARROW STRAIT	84	73	41.6	96	00.0	81	03	23	81	04	24	?	?	100	245	AAND	
BARROW STRAIT	84	73	41.6	96	00.0	81	03	23	81	04	24	?	?	225	245	AAND	
BARROW STRAIT	85	73	41.6	95	48.2	81	03	29	81	04	27	?	?	10	165	AAND	
BARROW STRAIT	46A	74	13.2	93	38.3	81	04	14	?	?	?	?	?	26	170	AAND	
BARROW STRAIT	46A	74	13.2	93	38.3	81	04	14	?	?	?	?	?	60	170	AAND	
BARROW STRAIT	46A	74	13.2	93	38.3	81	04	14	?	?	?	?	?	150	170	AAND	

11.3 WATER LEVEL DATA

PERMANENT WATER LEVEL GAUGING STATIONS

At present, there are four permanent water level gauging stations in this area (Stephenson, 1977). These stations are indicated on the WL maps by a "0". Records are not 100% continuous, and the reader is referred to the Tidal Survey section at the Institute of Ocean Sciences for more detail. A brief description only is included here.

57-0004 Resolute - MEDS Stn 5560

August 1957 to about 1977 - Refer to Dohler (1958) for details of initial set-up.
About 1977 to 1980 - Aanderaa submersible pressure recorder.

61-0006 Cambridge Bay - MEDS Stn 6240

July 1961 to July 1972 - OTT recorder.
1972 to present - Stevens A71 strip chart.

69-0003 Spence Bay - MEDS Stn 6150

August 1969 to July 1972 - OTT recorder.
August 1972 to present - Stevens A71.

71-0007 Coppermine - Stn MEDS 6290

September 1971 to July 1972 - OTT recorder.
August 1972 to present - Stevens A71.

The listings contain the following information:

AREA	Area
STN	Station number; generally as assigned by the originating agency.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length.
DT (MN)	Sampling rate in minutes.
INST & WATER DPTH	In metres.
INSTR TYPE	STAF - Tide staff AAND - Aanderaa AMS - Applied Microsystems OTT - Ott gauge, either float or poteniometric

ADDIT SENSOR Parameters measured qualified by:

X - measurements of this parameter were made
CA - possible calibration problems
S - suspect readings
C - constant readings
0 - zero or obviously bad readings

Blank entries indicate unavailable or unappropriate data.
? signifies data which are either unknown or may be suspect. For example a location which plots on land.

```
--------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  08-0001
YEAR:1908     VESSEL/AGENCY:

    AREA          STN   LAT       LONG        START     STOP    EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

  MELVILLE I     5645 74 47.   110 48       8 11 01 09 03 30   ? 60     ?     ?     ?

--------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  10-0001
YEAR:1910     VESSEL/AGENCY:

    AREA          STN   LAT       LONG        START     STOP    EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

  ADMIR. IN.     5865 73 02.    85 10.     10 12 01 11 04 30   ? 60     ?     ?     ?
  ARCTIC BAY          73 02.    84?00. ?   11 02 04 11 03 03   ? 60     ?     ?     ?
```

```
--------------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  15-0001
YEAR:1915     VESSEL/AGENCY:

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                       P T C


 DOL&UN STR          68 47.0? 114 45.0?   15 12 04 15 12 12  ?   ?     ?     ?     ?
 DOL&UN STR          68 47.0? 114 45.0?   15 06 06 15 06 23  ?   ?     ?     ?     ?
 PR. WALES           72 56.0? 117 10.0?   15 10 08 15 11 08  ?   ?     ?     ?     ?
```

```
-------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  15-0002
YEAR:1915     VESSEL/AGENCY:

    AREA          STN   LAT      LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

 DOL&UN STR     6310 68 47.   114 47.     15 12 01 16 06 30   ? 60     ?     ?    ?

-------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  48-0002
YEAR:1948     VESSEL/AGENCY:  US COAST & GEODETIC SUR.

    AREA          STN   LAT      LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

 WINTER HBR           74 47. ? 110 48. ?  48?      48? ? ?   ?   ?     ?     ?    ?
```

```
--------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  49-0001
YEAR:1949     VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA           STN   LAT      LONG      START     STOP    EFF DT     DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 RESOLUTE        5560 74 41.   94 54.    49 07 01 52 05 31  ?  60     ?     ?  STAF

--------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  53-0003
YEAR:1953     VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA           STN   LAT      LONG      START     STOP    EFF DT     DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 RODD HEAD       5740 74 14.  117 20.    53 08 24 53 08 27  ?  30?    ?     ?    ?
 MERCY BAY       5750 74 05.  119 00.    53 08 04 53 08 21  11?30?    ?     ?    ?
 CASTLE BAY      5760 74 12.  119 35.    53 07 20 53 08 02  ?  30?    ?     ?    ?
```

```
---------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  54-0005
YEAR:1954     VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

  RESOLUTE       5560 74 41.    94 54.     54 06 01 54 09 30   ? 60     ?     ?     ?

---------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  55-0003
YEAR:1955     VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

  SHEP. BAY      6160 68 46.    93 34.     55 08 08 55 08 13  ?   ?     ?     ?     ?
```

```
-------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  56-0004
YEAR:1956      VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C

 BERNARD H.     6310 68 47.   114 47.     56 09 02 56 09 30   ?  ?      ?     ?     ?

-------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  57-0005
YEAR:1957      VESSEL/AGENCY:

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C

 FALSE STR.     6100 71 59.    95 10.     57 08 23 57 09 06   ?  ?      ?     ?     ?
 FORT ROSS      5930 72 01.    94 14.     57 08 23 57 09 06   ?  ?      ?     ?  STAF
```

WATER LEVEL DATA, SET NUMBER: 59-0004
YEAR:1959 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT DEG MIN	LONG DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
SPENCE BAY	6150	69 32.	93 31.	59 08 01	60 09 30	?	60	?	?	?	

WATER LEVEL DATA, SET NUMBER: 60-0006
YEAR:1960 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT DEG MIN	LONG DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
PURFUR	5330	69 50.	84 13.	60 09 01	60 09 30	?	60	?	?	?	
DUNDAS HBR	5430	74 31.	82 26.	60 08 01	60 09 30	?	60	?	?	?	
BARROW STR	5500	74 43.	91 05.	60 09 01	61 09 30	?	60	?	?	?	

```
--------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  61-0007
YEAR:1961      VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA          STN   LAT       LONG        START       STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

  RIGBY BAY      5490 74 33.    90 10.      61 08 01 61 09 30  ?  60     ?     ?    ?
  RADSTOCK       5500 74 43.    91 05.      61 09 02 61 09 16  ?  60     ?     ?  STAF
  STRATH SD.     5860 73 03     84 24.      61 08 01 61 09 30  ?  60     ?     ?  STAF
  CAMBR. BAY     6240 69 07.   105 04.      61 01 01 61 06 30  ?  60     ?     ?    ?
```

```
-------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  62-0008
YEAR:1962      VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 CAPE CAPEL     5600 75 04.    98 14.     62 08 01 62 09 30  ?  60     ?     ?    ?

-------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  70-0007
YEAR:1970      VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 PR. WALES           72 46.   118 05.     70 08 31 70 09 15  ?  ?      ?     ?    ?
```

WATER LEVEL DATA, SET NUMBER: 71-0008
YEAR:1971 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
CAPE CAPEL	5600	75	04.	98	14.	71	08	01	71	09	30	?	60	?	?	OTT	
HAMILTON I	5615	74	12.	99	10.	71	08	01	71	09	30	?	60	?	?	OTT	

WATER LEVEL DATA, SET NUMBER: 73-0007
YEAR:1973 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT		LONG		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
BYAM CHANNEL	6833	75	1.	106	22.	73	08	01	73	08	31	?	60	?	?	?	
MAXWELL B.	5530	74	41.	88	54.	73	08	01	74	09	30	?	60	?	?	?	

```
-----------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  74-0015
YEAR:1974     VESSEL/AGENCY:  STRATHCONA MINERAL SERV.

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 STRATH SD            73 10.0?  84 30.0?   74 08 05 74 10 16  ?   ?     ?     ?     ?  X


-----------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  74-0017
YEAR:1974     VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

 FORT ROSS      5930 72 01.    94 14.      74 06  ? 74 11  ?  ?   ?     ?     ?     ?
 FALSE STR.     6100 71 59.    95 10.      74 06  ? 74 11  ?  ?   ?     ?     ?     ?
```

```
------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  75-0014
YEAR:1975     VESSEL/AGENCY:  DEF. RES. EST. OTTAWA

   AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

 F & H STRAIT        69 51.    84 15.      75 04 25 75 05 07  ?   ?     ?     ?    ?  X

------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  75-0015
YEAR:1975     VESSEL/AGENCY:  CAN HYDR. SERVICE

   AREA          STN   LAT       LONG        START      STOP    EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

 STRATH SD      5860 73 03.    84 24.      75 07 01 75 07 31  ?  60     ?     ?    ?
```

WATER LEVEL DATA, SET NUMBER: 76-0007
YEAR:1976 VESSEL/AGENCY: DEF. RES. EST. PACIFIC

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
F & H STR.	1	69	51.5	84	21.5	76	04	20	76	05	26	37	?	?	?	OTT			
F & H STR.	2	69	38.7	82	02.0	76	04	22	76	05	27	35	?	?	?	OTT			
F & H STR.	3	69	58.9	84	17.5	76	04	23	76	05	26	33	?	?	?	OTT			
F & H STR.	4	69	54.6	85	36.3	76	04	26	76	05	27	32	?	?	?	OTT			
F & H STR.	5	69	49.0	82	49.5	76	04	26	76	05	27	30	?	?	?	OTT			
F & H STR.	6	69	58.3	88	10.0?	76	04	27	76	05	27	30	?	?	?	OTT			

WATER LEVEL DATA, SET NUMBER: 76-0009
YEAR:1976 VESSEL/AGENCY: GEOL. SURVEY OF CANADA

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
CUNN. IN.	1	74	08.	93	50.	76	07	27	76	09	08	?	?	?	?	?	X		
CUNN. IN.	5910	74	08.	93	53.	76	08	01	76	09	30	?	60	?	?	?			
CROWN PR.	5970	70	02.	86	50.	76	04	01	76	05	31	?	60	?	?	?			
ENTR. IS.	5350	69	54.	85	36.	76	04	01	76	05	31	?	60	?	?	?			

WATER LEVEL DATA, SET NUMBER: 76-0013
YEAR:1976 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT DEG MIN	LONG DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
CAPE YOUNG	6315	68 54.	116 51.	76 07 30	76 09 09	?	15	5	5	AAND	X		

```
------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  77-0012
YEAR:1977     VESSEL/AGENCY:  CCIW, BURLINGTON

    AREA          STN   LAT        LONG         START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN    DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C

  BYAM MAR I            75 01.0  104 13.0    77 03 10 77 04 15   ? 15    31    31  AAND X
  PEEL PT.              73 16.0  115 11.0    77 04 20 77 05 11   ? 15    16    16  AAND X
  C. BOUNTY             74 51.0  109 32.0    77 03 09 77 04 15   ? 15    19    19  AAND X
  STEPH. IS.       5630 73 46.0  105 37.0    77 03 10 77 03 21   ? 15    21    21  AAND X
  NATK.PENN.            73 01.0  110 28.0    77 03 09 77 04 13   ? 15    27    27  AAND X

------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  77-0020
YEAR:1977     VESSEL/AGENCY:  INST. OC. SC., PAT BAY

    AREA          STN   LAT        LONG         START      STOP    EFF DT     DEPTHS    INST ADDIT
                      DEG MIN    DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C

  READ IS.         6300 69 12.   113 50.     77  ?  ? 77  ?  ?   ?  ?     ?     ?     ?
```

WATER LEVEL DATA, SET NUMBER: 77-0021
YEAR:1977 VESSEL/AGENCY: CAN. HYDR. SERVICE

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
CAPE YOUNG	6315	68	54.0	116	51.0	77	07	27	77	09	09	?	30	5?	5	AAND	X		
READ IS.	6305	69	13.0	113	50.0	77	07	28	77	09	10	?	30	8	8	AAND	X		
BERNARD H.	6311	68	47.0	114	45.0	77	07	28	77	09	10	?	30	8	8	AAND	X		
BLACKBERRY	6285	68	14.0	113	20.0	77	07	28	77	09	10	?	30	3	3	AAND	X		

WATER LEVEL DATA, SET NUMBER: 78-0003
YEAR:1978 VESSEL/AGENCY: PETRO-CANADA, ASL

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
BRIDPORT	1	75	02.	108	45.	78	02	15	78	06	01	107	30	85	85	AAND	X	X	

WATER LEVEL DATA, SET NUMBER: 78-0005
YEAR: 1978 VESSEL/AGENCY: PETRO-CANADA, ASL

AREA	STN	LAT DEG MIN	LONG DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	 T	 C
LAN. SD.		74 31.	82 23.	78 08 21	79 06 16	?	20	14	14	AMS	X	X	

WATER LEVEL DATA, SET NUMBER: 78-0006
YEAR: 1978 VESSEL/AGENCY: INST. OC. SC., FROZEN SEA

AREA	STN	LAT DEG MIN	LONG DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	 T	 C
BRIDPORT	1	75 00.	108 54.	78 08 21	78 10 10	50	15	25	25	AAND	X		

```
-----------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  78-0007
YEAR:1978     VESSEL/AGENCY:  CCIW, BURLINGTON

   AREA          STN   LAT      LONG       START     STOP    EFF DT    DEPTHS   INST ADDIT
                     DEG MIN  DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

 STEPH. IS.          73 45.   105 01.    78 03 12 78 04 18   ? 15    25    25  AAND X
 BYAM MAR I          75 02.   104 32.    78 03 07 78 04 18   ? 15     5     5  AAND S



-----------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  79-0013
YEAR:1979     VESSEL/AGENCY:  POLAR GAS PIPELINE

   AREA          STN   LAT      LONG       START     STOP    EFF DT    DEPTHS   INST ADDIT
                     DEG MIN  DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

 MCLURE STR        1 73 29.5  115 10.17  79?02 26 79?03 28  28  ?    75    75  AAND X
```

```
--------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  79-0014
YEAR:1979     VESSEL/AGENCY:  INST. OC. SC., FROZEN SEA

   AREA            STN   LAT       LONG        START      STOP    EFF DT    DEPTHS    INST ADDIT
                       DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                       P T C

 BRIDPORT            1 75 00.   108 54.     79 03 17 79 07 02 107 15    25    25  AAND X

--------------------------------------------------------------------------------------------

WATER LEVEL DATA, SET NUMBER:  79-0016
YEAR:1979     VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA            STN   LAT       LONG        START      STOP    EFF DT    DEPTHS    INST ADDIT
                       DEG MIN   DEG MIN    YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                       P T C

 JENNY LIND            68 40.   101 50.     79 08 13 79 11 08   ? 60     5     5  AAND X
 HEPBURN IS            67 53.   111 00.     79 08 14 80 08 28   ? 60     9     9  AAND X
 GLADMAN PT            68 40.    97 47.     79 08 15 80 08 11   ? 60     5     5  AAND X
 GJOA HAVEN            68 38.    95 53.     79 08 15 80 08 15   ? 60     9     9  AAND X
 SPENCE BAY            69 32.    93 32.     79 08 15 80 08 15   ? 60     6     6  AAND X
 MCBEAN BAY            72 38.    89 38.     79 04 14 79 06 08   ? 15    15    15  AAND X
 WADWORTH I       6080 73 26.    95 41.     79 04 08 79 06 09   ? 15    15    15  AAND X
 OTRICK IS.       6090 72 36.    95 33.     79 04 08 79 06 09   ? 15    15    15  AAND X
 TASMANIA I       6110 71 12.    96 25.     79 04 10 79 06 09   ? 15    15    15  AAND X
```

```
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WATER LEVEL DATA, SET NUMBER:  80-0009
YEAR:1980     VESSEL/AGENCY:  INST. OC. SC., FROZEN SEA

   AREA          STN   LAT       LONG        START       STOP    EFF DT    DEPTHS     INST ADDIT
                     DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

 BRIDPORT          1 74 59.9  108 53.13    80 03 29 80 04 29  32  5    39    39  AAND X
 BRIDPORT          3 75 01.9  108 35.83    80 03 26 80 04 27  33  5    39    39  AAND X

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WATER LEVEL DATA, SET NUMBER:  80-0011
YEAR:1980     VESSEL/AGENCY:  CAN. HYDR. SERVICE

   AREA          STN   LAT       LONG        START       STOP    EFF DT    DEPTHS     INST ADDIT
                     DEG MIN   DEG MIN     YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

 J.HALK.IS.          70 02.   100 50.      80 03 15 80 04 23   ? 15    10    10  AAND X
 C. FELIX            69 55.    97 58.      80 03 19 80 04 22   ? 15    15    15  AAND X
 C. STANG            71 28.   104 12.      80 03 17 80 04 24   ? 15    20    20  AAND X
 STEPH. IS.          73 24.   104 20.      80 03 17 80 04 23  38 15    30    30  AAND X
 MINTO HD.           73 06.   102 15.      80 03 17 80 04 23   ? 15    20    20  AAND X
 THACK. PT.          71 40.    99 42.      80 03 21 80 04 23   ? 15    30    30  AAND X
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WATER LEVEL DATA, SET NUMBER: 81-0007
YEAR:1981 VESSEL/AGENCY: CCIW, BURLINGTON

AREA	STN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
BARROW STR	306	73	41.6?	96	49.0?	81	03	11	81	04	24	?	?	40	?	?			
BARROW STR	409	73	41.6?	96	49.0?	81	03	11	81	03	24	?	?	40	?	?	?		
BARROW STR	308	73	41.6?	96	49.0?	81	03	11	81	04	24	?	?	110	?	?			
BARROW STR	414	73	41.6?	96	49.0?	81	03	16	81	04	24	?	?	110	?	?			
BARROW STR	307	74	41.6?	95	48.2?	81	03	14	81	04	22	?	?	20	?	?			
BARROW STR	415	74	41.6?	95	48.2?	81	03	14	81	04	22	?	?	16	?	?			
BARROW STR	309	74	41.6?	95	48.2?	81	03	14	81	04	22	?	?	85	?	?			
BARROW STR	406	74	41.6?	95	48.2?	81	03	14	81	04	22	?	?	85	?	?			
BARROW STR	307	74	36.2?	94	02.8?	81	04	25	82	04	25?	?	?	22	?	?			
BARROW STR	306	74	11.3?	93	45.9?	81	04	26	82?	?	?	?	?	25	?	?			

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WATER LEVEL DATA, SET NUMBER:  81-0008
YEAR:1981     VESSEL/AGENCY:  CAN. HYDR. SERVICE

    AREA         STN   LAT      LONG       START      STOP    EFF DT    DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

 LOWTHER IS           74 38.   97 20.    81 03 08 81 04 24   ? 15    20    20   AMS X
 ALLISON IN     408   74 59.   99 23.    81 03 09 81 04 25   ? 15    15    15  AAND X
 C. BRIGGS      409   73 41.   96 55.    81 03 11 81 04 24   ? 15    45    45  AAND X
 C. BRIGGS      414   73 41.   96 52.    81 03 11 81 04 24   ? 15   110   110  AAND X
 C.WHITEHD.           73 41.   95 43.    81?03 14 81 04 22   ?  ?     ?     ?     ? ?
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APPENDIX 1

This section describes the methods and instrumentation used in the field programs and any problems encountered. Data reports and relevant references are also noted. Missing or suspect data are flagged, and if available, estimates of the measurement accuracies are provided.

08-0001

Captain Bernier overwintered his ship the Arctic at Winter Harbour on Melville Island's south coast, and it was probably he who had the water level data collected.

10-0001

Bernier and the Arctic overwintered in Arctic Bay and probably collected the water level data.

15-0001

During the expedition, water level measurements were made at several places, two of which are in this study area (Dawson, 1920).

Bernard Harbour: The first observations in June 1915 were made with a registering tide gauge but the record was poor due to equipment malfunction. The best result is the Spring range near new moon on June 12. The second record in December was obtained by reading the scale to the hundredth of a foot (manually?).

Armstrong Point: While over-wintering water levels were measured to the nearest quarter inch (manually?) at short intervals both day and night.

A current meter was listed as being among the expedition's equipment, however, the paper by Dawson does not indicate what, if any, current measurements were made.

Grainger (1965) reports that zooplankton were collected by the Canadian Arctic Expedition, 1913-1918.

15-0002

R.M. Anderson, in charge of the southern division of the Canadian Arctic Expedition, 1913-1918, carried out scientific research in the area of Coronation Gulf (Cooke, 1981). It is probable that his party made the water level measurements.

28-0001

Water samples were collected using both Knudsen and Nansen reversing water bottles (tinned inside and out), having reversing thermometers attached. The thermometers were allowed to equilibrate at depth for at least 5 minutes before being tripped. Water samples were drawn off for hydrogen ion, oxygen, and chlorine determination. Most titrations were done on board but some were carried out at the Hydrographical Laboratory in Copenhagen. Salinity was calculated using Knudsen's tables (Riis-Carstensen, 1936).

Comparison of paired thermometer readings gave a value of 0.016C° for the mean of the mean deviations. No accuracy was given for salinity.

One Jacobsen libelle current meter and three Marx and Berndt current meters were taken on board. Two sets of current measurements were taken in Baffin Bay while the vessel was anchored, however none west of 80° longitude.

35-0001

T/S data, as well as collections of biological material, were collected by personnel aboard the R.C.M.P. vessel St. Roche while on patrol duty (Tully, 1952). Instruments were supplied by the Pacific Biological Station at Nanaimo. The data and samples were deposited with the Pacific Biological Station in 1938.

Temperatures were measured using reversing thermometers, while salinity was calculated (Knudsen's Tables) on the basis of specific gravities measured by hydrometers. Measurements were made of surface samples only.

46-0001

The hydrographic samples were taken using Nansen sample bottles and reversing thermometers. Bathythermograph (BT) data were also collected. In addition bottom sediment and plankton samples were collected (Metcalfe, 1949).

Hydrographic samples were spread over the water column and the upper 100 m were therefore not sampled as densely as they would have been in more recent surveys. Metcalfe (1949) does not specify accuracies for the T/S data.

48-0001

Water mass: Nansen bottles and reversing thermometers were used as well as BTs. Samples were usually taken at 0, 25, 50, 75, 100, 150, 200, 300 and 400 feet. Tables of temperature, salinity and sigma-t are included at the end of Metcalfe's (1949) report. He does not state any accuracies.

48-0002

U.S. Coast and Geodetic Survey.

50-0002

Bottle casts and BTs were conducted. No accuracies are given in the data report (U.S. Hydr. Office, 1954a). Water transparency and oxygen were also measured, along with bottom samples.

52-0003

Bottle casts for temperature, salinity and dissolved oxygen were conducted. Water transparency was also measured and bottom samples taken. No estimates of accuracy are given in the data report (U.S. Hydr. Office, 1954a).

53-0001

Observations included temperature, salinity, oxygen, phosphate, silicate, bottom sediment, plankton, BTs and bi-plane current measurements. Temperature, salinity, sigma-t and dissolved oxygen values are tabulated in the report. No estimates of accuracy are given. Two sets of current observations are described (U.S. Hydro. Office, 1954b, p. 256); a 9 hour and a 16 hour record, both in Prince of Wales Strait.

54-0001

Reversing bottles and thermometer, as well as BTs, were used. Titrations for salinity were made at the A.O.G. lab. Bailey (1955) presents the data but does not report errors or accuracies.

54-0002

Unusually favourable ice conditions during the summer of 1954 allowed both the USS Burton Island and the USCGC Northwind (54-0003) to take measurements in previously unsurveyed areas (U.S. Navy Hydr. Off., 1956).

No estimates of accuracy for the temperature and salinity measurements were given in the above report. However, the data were found to compare favourably with those of previous years.

54-0003

See comments for 54-0002.

54-0004

T/S data were collected while marine animals were being sought (Ellis, 1956). The accuracy of the data suffered due to the lack of facilities. Temperatures were measured using reversing thermometers and were accurate to ±0.05C°. Salinity was determined by either silver nitrate titration, by hydrometer determination of specific gravity, or by both methods. Accuracy using titration was estimated at ±0.1°/oo; using the hydrometer, 0.2°/oo.

56-0001

Thirteen stations from this cruise were in the study area. Nansen bottles and reversing thermometers were used. Water samples were analyzed at the U.S. Navy Hydrographic Office (U.S. Navy Hydr. Off., 1960). The report includes listings only of T/S and density. Nineteen sets of Ekman current meter readings were also taken. Bottom sediment samples were also collected.

56-0002

While doing a biological study, T/S data were also collected (Apollonio, 1957). Temperatures were obtained by thrusting a stem thermometer into the bottle sample as soon as it reached the surface. Water samples were collected using either an Ekman bottle or a brass Kemmerer bottle. Salinity was based on specific gravity as measured by hydrometer. The paper does not provide dates of measurements.

56-0003

Collin (1958) presents the 1956 Labrador results but nothing is mentioned of the techniques and accuracies achieved.

57-0001

The Spar was one of three ships assigned to take measurements to help determine the feasibility of a deep-water ship route through the Northwest Passage. Nansen casts, BTs, current observations and bottom sediment were collected. The report (U.S. Navy Hydr. Off., 1959) includes tables of T/S and sigma-t, as well as the Ekman current meter and BT results. The current meter stations were generally of short duration, except for one in Simpson Strait which spanned 12 hours.

57-0003

Data available through MEDS.

57-0004

As part of the International Geophysical Year, the Canadian Hydrographic Service established a tide station at Resolute. A gravel jetty was built out from shore and the tide station was constructed at the end of the jetty. Three gauges were installed initially: a Leopold and Stevens gauge, a Foxboro pressure gauge, and a Lege Remote gauge. For more detail refer to Dohler (1958).

Since the initial deployment of these three gauges, various other instruments, including Aanderaa tide gauges, have been used at this site.

57-0005

Information available from the Institute of Ocean Sciences, Sidney, B.C.

59-0002

Stations 14-17 from this cruise fell in the Northwest Passage study area (U.S. Navy Oc. Off., 1959). Nansen bottles and paired reversing thermometers were used. The thermometers agreed to within 0.05C° and the two values were averaged. Salinity samples were analyzed with a conductivity bridge at NAVOCEANO about three months after they were collected. Salinities were plotted against depth and salinity values were accepted "on the basis of the constructed curves". No estimates of accuracy are given. Other measurements included bottom sediment and bathythermograph.

59-0003

While conducting acoustic research one oceanographic station was obtained using a hand-operated winch. No details of methods or accuracy are given (Milne, 1960).

60-0004

Missing Data: Stn. 13, no salinity at 10 m.
Stn. 15, no salinities at 20 and 50 m.

Bottle casts were made at standard depths using Knudsen type reversing bottles fitted with Richter and Wiese thermometers. Salinity samples were stored in bottles with rubber washers and analyzed later using a conductivity salinometer at the Pacific Oceanographic Group (C.O.D.C., 1964).

60-0005

Bottle casts used Knudsen type reversing bottles and Negretti and Zambra protected thermometers (one per bottle). Salinity samples were stored in glass bottles having rubber washers and were later analyzed at the Atlantic Oceanographic Group lab using a chemical titration technique (C.O.D.C., 1964). Plankton samples were forwarded to the Arctic Unit (Grainger, 1963).

Suspect data noted in above data report:
- Stn. 20 Temperature at 75 m missing; at 100 m suspect.
- Stn. 21 No salinities above 150 m.
- Stn. 23 Temperature missing at 75 m.
- Stn. 24 Temperature missing at 65 m.
- Stn. 25 Temperature missing at 75 m.
- Stn. 48 Temperature missing at 200 m.
- Stn. 55 Salinities at 335 and 504 m suspect.

60-0006

The water level measurements in Fury and Hecla Strait were probably taken as part of the Baffin cruise (60-0008).

60-0008

Ekman current profiles were made over a 36 hour period, however due to inadequate mooring most of the data reflects ship motion. About 13 hours of good data resulted, along with measurements of tidal height (C.O.D.C., 1964).

61-0003

C.O.D.C. (1966) notes the following data as suspect:

Stn.	Depth	Suspect Data
41	47	T
43	20	T
44	0	T
44	45	Depth
50	15,23,57	Depth
51	181	Depth
59	47	S
61	30	S

61-0004

The CODC data report (1966) notes the following data as suspect:

Stn.	Depths	Suspect Data
9	100	O_2
14	50,100	S
14	400	O_2
16	250,400,450	O_2
17	250,400,450	O_2
54	100	S

62-0005

Standard deviations (sigma) of the measurements were given as:

Temperature: 0.02
Salinity: 0.04

Measurement accuracy was estimated to be ±1 std. dev. for both temperature and salinity (C.O.D.C., 1963).

62-0005A	No suspect data
62-0005B	Station 1 has temperature at surface only
62-0005C	Station 6 has no temperature data

62-0006

Data Quality: Barber and Huyer (1971) noted what they felt were suspect data:

Stn.	Depth	
4	200	Density inversion; salinity changed to 33.308
4	250	Density inversion; salinity changed to 33.690
13	0	Density inversion; salinity changed to 29.690
13	10	Density inversion; salinity changed to 30.130
18	0	Density inversion; salinity deleted
58	0	Density inversion; salinity changed to 26.260
58	10	Density inversion; salinity changed to 26.700

62-0007

No suspect data were noted in the C.O.D.C. (1967) data report. Barber and Huyer (1971) used the data and felt a systematic error of up to 0.01°/oo could exist in the salinity values.

65-0004

Temperature and salinity, at one location, were measured twice a month during the period 1965 to 1966 (Lewis and Walker, 1970). A thermistor winch (accuracy ±0.01°C) and a Hytech in-situ induction salinometer (accuracy ±0.1°/oo) were used.

The study was continued during February and March 1966 and February and March 1968. Salinities were obtained from water samples using a Hytech bench induction salinometer. Temperatures were measured with a thermistor winch (±0.01C°) and a thermistor chain (±0.01C° accuracy, ±0.002C° for a single time series). The February-March 1968 data consisted mainly of hourly recordings with the thermistor chain between February 18 and March 14.

66-0004

Teflon-lined Nansen bottles were used. Temperatures were measured with paired protected deep-sea reversing thermometers. The measured temperatures are believed (Palfrey and Day, 1968) to be accurate to ±0.01C°. Depth of observation was based on wire angle and unprotected thermometers readings. Water sample salinity was measured with an RS-7A inductive salinometer (manufactured by Industrial Instruments Corp.). Salinities were considered precise to ±0.005°/oo and accurate to ±0.01°/oo. The accuracy is probably no better than ±0.02°/oo considering calibration/standardization problems of the time.

67-0002

Missing or suspect data in the data report (C.O.D.C., 1968):

Stn. 1: No temperature at 0 m; no salinity at 200 m.
Stn. 58: No temperature at 0 m.
Stn. 61: No temperature at 0 m.

The data report specifies error estimates for most of the temperature and salinity values of 2 sigma where sigma is the standard deviation. However, is not specified in the report. This does indicate overall reduced accuracy though, since in these reports the error estimates are usually ±1 sigma.

Reversing bottles and thermometers were used at all stations. At eight of these stations an "in situ" salinometer was lowered for comparison. The in situ data were 0.04C° colder on average and 0.13°/oo more saline than the bottle data.

68-0001

Reversing water bottles and thermometers were used (Herlinveaux, 1970). Each cast was followed by a BT. Salinity was determined with a conductivity salinometer. The data are presented as listings.

Dissolved oxygen was also measured and biological samples were collected using the submersible Pisces.

68-0002

No mention of the methods used in determining temperature and salinity is provided by Lewis and Walker (1970).

70-0006

Institution responsible: University of Washington.

Temperature and salinity were measured using a Bissett-Berman Model 9060 salinity/temperature/depth recording unit. The STD was checked with water samples from Nansen casts and the agreement was always within the specified accuracy/resolution of the instrument (±0.05/±0.02°/oo salinity; ±0.05/±0.05C° temperature) (U.S.C.G., 1972).

71-0006

T/S data collected during periods Sept. 8-Oct. 29, 1971
Nov. 29-Dec. 5, 1971
Feb. 15-26, 1972
Apr. 8-15, 1972

All data were collected at one location, the deepest part of the Bay.

Guildline Model 8101A CTDs were used, accompanied by water samples. Accuracies vary, and are included with the data tabulations. Typically they were 0.02-0.05°/oo and ±0.005C° (Inst. Oc. Sc., 1973).

72-0011

Seven oceanographic stations were occupied during the period September 24-29 using Knudsen bottles and reversing thermometers (Herlinveaux and Wilson, 1974). Salinity was measured with an inductive type salinometer. No accuracy estimates given in the report. Seven current profiles were made, also 18 hours of surface current speed and direction were measured while at anchor off Assistance Bay.

73-0005

Codispoti and Owens (1975) mention only that temperature and salinity were measured using standard techniques.

73-0006

Water mass: A Guildline CTD (accurate to ±0.02C° and ±0.04 °/oo as stated by manufacturer) was used, and checks were made with bottle casts and reversing thermometers. 24 casts were made at station 1 over a three day period; then one cast at each of stations 2 through 6. Listings and plots are included in the report (Herlinveaux et al., 1978).

Currents: An Aanderaa RCM-4 current meter was moored at a depth of 153 m (2 m above bottom). Direction orientation was provided by a magnet on the frame the meter was attached to. Timing mechanism failure reduced the useable record length to about 6 days. 27 current profiles (instrument type not specified) were made at station 1 between April 15-19. A torsionally-rigid hose maintained direction orientation.

73-0008

This represents the second phase (the first being 73-0006) of an oceanographic survey of Barrow Strait and Wellington Channel. A Guildline 8101 Arctic probe CTD unit and a Hydro Products Savonius rotor current meter were used. Repeated CTD casts were made while the ship was at anchor (Herlinveaux et al., in preparation).

74-0012

Salinity and temperature data were collected from June-September, however, only a brief discussion of the results is presented in the report (Taylor, 1975). There were no actual tabulations or plots. Tidal current measurements were also collected using drogues at various depths.

74-0013

The current meter data are stored as raw data, on tape, at BIO.

74-0014

The period of study was May and August, 1974 (Thomspon et al., 1975). Water samples were taken using Knudsen bottles for temperature and salinity measurements (Stations 1 and 2, Figure II). Salinity was then determined to an accuracy of 0.5 ±0.25°/oo using a hand refractometer. At station 138 an STD was used. Instrument type was not specified, nor accuracy. The data are presented as profiles of temperature and salinity, Figure 2. Station 1 (May 8) shows no salinity structure and is suspect. Station 2 (May 16) and Station 138 (August 30) are also presented. Station 2 shows a salinity inversion near the surface. T/S data were also presented for Cunningham Inlet (Figures 9 and 10) based on August 14-27 sampling.

74-0015

The B.C. Research (1975) report could not be obtained from B.C. Research. The data are discussed in two other reports in varying detail (Barber and Murty, 1975; Walker, 1977). As well as CTD, currents, and water level measurements, dissolved oxygen, pH, and metal concentrations were measured.

75-0013

Temperatures were measured using reversing thermometers; accuracy ±0.05C°. Salinity was determined using a refractometer; accuracy ±0.5°/oo. T/S data are tabulated in Tables 3 (p. 23) and 26 (p. 89) (Serkerak, Thompson, Bain and Acreman, 1976).

75-0014

A report by Serson (1976) could not be obtained in time to be included here.

Sadler et al. (1979, p. 14) state that Serson spent several weeks observing currents, water structure, ice conditions and tides in the spring of 1976 (suspect this was 1975). This was in preparation for the main study of 1976 (ID 76-0007).

76-0007

Current Measurements: 14 current meters/4 stations, in a line running north-south across Fury and Hecla Strait. The meters at 5 and 9 m depths were Marsh-McBirney electromagnetic current meters. They were mounted on rigid pipe and oriented from the surface. Estimated accuracy is given as ±2 cm/s. The lower meters were Braincon, vane type meters, with direction accuracy given as ±10 degrees and speed accuracy of ±4 to 15% of the speed. Of the 14 current meters, 5 full records and 8 useful partial records were obtained. The data are presented as daily mean stick plots, progressive vector diagrams, and time series of velocity components.

Water Mass Measurements: A Guildline Mark II CTD was used, with paper chart output. Calibration problems delayed the conductivity results (to be published later), and only temperature data are presented (Sadler et al., 1979), accurate to ±0.01C°. Knudsen bottle samples were also collected.

Tide Measurements: Tide level observations were made at 6 locations. Ott tide gauges were mounted on floating ice. All 6 instruments functioned properly and gave full records.

Other measurements included six Braincon recording thermographs (±0.1°C) used with the current meter arrays to identify gross changes in temperature structure.

76-0008

This study concentrated on biological measurements but included T/S and dissolved oxygen data as well. Temperature profiles to 260 m were obtained with a bathythermograph. Reversing thermometers were also used exclusively between August 16-22. Water samples were collected in 1.2 litre Nansen bottles, and salinity was measured with a hand-held refractometer. Replicate readings agreed to within ±0.5°/oo, however, due to increasing salinity of the calibration water, measurements in the latter part of the study could have been underestimated by up to 0.5°/oo.

The data are presented in tables as well as profile plots (Sekerak, Buchanan, Griffiths and Foy, 1976).

76-0009

Temperature and salinity were measured with a CTD manufactured by Yellow Springs Instruments Co. Data are discussed but no tables or plots are included in the report (Morison and Taylor, 1978). No estimates of accuracies are given.

Other measurements included a tide record (July 27-Sept. 8), soundings, and suspended sediment.

76-0010

Water samples were collected using 1.7 litre Niskin bottles. Temperature was measured with reversing thermometers; accuracy ±0.05C°. Salinity was measured with a refractometer; accuracy ±0.5. Data are presented in tabular form (Table 1, p. 201) and as T/S profiles (p. 34-35) (Bain et al., 1977).

76-0011

This cruise was geophysics oriented, but a CTD and Knudsen casts were used to collect data in Lancaster Sound. The report (B.I.O., 1976) does not provide details on the methods used, only station positions.

77-0011

Personal communication with Dr. Pounder, Marine Sciences Centre, McGill University, Montreal. The data are not yet out in a report. All data were taken at one site, between approximately May 6-29. A Bisset Berman CTD and Interocean current meter were used. About 40 time series records of 1 hour duration were also taken at a depth of 1 m using an ultrasonic current meter (Langleben, 1982).

77-0012

Water Mass Measurements: A Guildline Mark IV CTD was used with T/S accuracies estimated to be ±0.01C° and ±0.01°/oo. The data are presented as tables and profile plots (Peck, 1977 and 1978).

Current Measurements: Six Geodyne (savonius rotor) current meters were recovered. 5-6 week records were obtained from all but two of the meters; one stopped recording after 10 days, the other never worked at all. The meters were oriented at surface with rigid hose connections. The data were analyzed for tidal constituents and spectral energy. Tabulated data and profiles are included in the reports.

Water Level Measurements: The Hydrographic Service installed two Aanderaa submersible tide gauges during the same period. Results of the tidal analysis are also included in Peck (1978).

77-0013

Nine Aanderaa current meters were recovered from three moorings. Accuracies, as supplied by the manufacturer were: ±0.15C° in temperature, and 1 cm/s or 2% of speed. Directional accuracy were felt to be typically ±10°, up to 20° maximum. Time series plots, statistics, power spectra and progressive vector diagrams are presented in Fissel and Wilton, 1978. The data are at the Institute of Ocean Sciences, Sidney, B.C., on tape.

77-0014

Most water column samples were collected with 5 litre Niskin bottles mounted on a rosette package which included a CTD and oxygen sensors. Biological productivity, nutrients, hydrocarbons, and chlorophyll were also measured. No information on cast depth or water depth was available (B.I.O., 1977).

77-0015

1977 field measurements included (Thompson et al., 1978):

Temperature: Reversing thermometer (water column) ±0.05C° accuracy. YSI probe (intertidal), accuracy ±0.5C°.

Salinity: American Optical refractometer (spring), ±0.5°/oo; Hytech Induction Salinometer Model 622, (summer water column August 24-September 4) ± 0.01°/oo; YSI probe (intertidal), ±1.0°/oo.

T/S measurements were taken in May and on September 2, 1977. The September 2 T/S data are in Table 5 (p. 25) of the above report, however, the May T/S data could not be found except as a brief summary paragraph on p. 24. Water samples were taken using 1.7 litre Niskin bottles. Other measurements included: phytoplankton, nitrates, phosphates, silicates, chlorophyll, zooplankton and other flora and fauna.

77-0016

The period of study was June 4-5 and August 2-31, 1977. A YSI temperature probe was used for some measurements but was found to be unreliable. Thereafter reversing thermometers, accurate to ±0.05C°, were used. Salinity was measured using either a YSI probe (±1°/oo), an Endeco hand-held refractometer/salinometer (±0.5°/oo), or a Hytech Induction Salinometer (±0.01°/oo). T/S data are presented as profile plots (p. 31-37) (Buchanan et al., 1977).

77-0017

Record of current meter mooring on the B.I.O. computer, but no documentation found.

77-0018

Nine satellite tracked drogued drifters were tracked in eastern Parry Channel. Positional accuracy was estimated to be ±5 km (Fissel and Marko, 1978).

77-0020

Data available from the Institute of Ocean Sciences, Sidney, B.C.

The water level station (#6300) looks suspiciously similar to #6305 of data set 77-0021. They may be one of the same.

78-0003

Water Mass Measurements: A Guildline Model 8705 CTD was used. Water samples were collected with Nansen bottles. The two methods agreed to ±0.03°/oo, however, some question of the data quality arose in the report because the salinities of the deep waters were 0.35°/oo higher than those measured by two other groups (Greisman, 1978). Greisman believed his higher salinities to be in error.

The CTD data are presented as profile plots; no listings.

Currents Measurements: Four Aanderaa current meters were deployed through the ice and recovered. Three were mounted at 12 m depth via rigid pipes, the fourth was at 60 m. Only the ones at 12 m provided directional information. Precision of the measurements is given as ±0.27 cm/s for speed, +0.023C° for temperature. Direction is ±5° depending on the accuracy of orientation. The data are presented as speed and direction histograms, progressive vector diagrams, and power spectra plots. Three of the records were also subjected to tidal analysis.

Water Level Measurements: Two Aanderaa submersible tide gauges were deployed; one was recovered. It recorded pressure and temperature with accuracies of ±3 cm and ±0.5C°.

78-0004

Personal communication with Dr. Pounder, Marine Sciences Centre, McGill University, Montreal.

The CTD and current meter data have not been processed yet, therefore no information on data recovery and/or accuracy is available.

78-0005

Temperature/salinity measurements were made using a Guildline Model 8706 CTD. Manufacturer's specifications for accuracy are salinity ±0.005°/oo, temperature ±0.005C°, and pressure ±0.15% full scale. These more truly reflect the resolution of the instrument.

No major problems occurred with the 1978 data and the accuracy is believed to be ±0.02°/oo, precise to ±0.005°/oo. The results are presented as listings and profile plots (Lemon, 1980).

All current meters were subsurface moored, Aanderaa RCM-4 current meters. Fourteen moorings, involving 43 current meters were deployed and recovered in 1978. Five moorings which were redeployed over winter were recovered in the spring. Directional accuracy of the vane sensors was generally ±10 to 20 degrees. Temperature and equivalent salinity accuracies were estimated to be ±0.05C° and 0.15^{o}/oo. The speed measurements are accurate to ±1 cm/s, or ±2% of the speed, whichever is greater (manufacturer's specifications).

Current profiles in 1978 were made using an Endeco type 110 profiling current meter, to depths of 50 m. Direction accuracy was about ±30 degrees. Speed uncertainty was estimated to be ±12 cm/s relative to ship motion. Absolute speed was calculated for stations within 6 miles of land only. Speed direction and temperature are presented in tabular and plot form (Fissel and Birch, 1980).

Drogued drifters were released in 1978 as part of the EAMES program. In 1978, 13 of the drifters entered the area of this data compilation. The report (Fissel, 1980a) lists positions, velocities and includes track plots. Position accuracy was about ±2 km.

An Applied Microsystems TG-12A provided a 263-day subsurface pressure and temperature record. The internal electronics partially malfunctioned, necessitating interpolative error correction processing. The corrected water level record was felt to be accurate to ±1 cm. The data were subjected to a tidal analysis and a 6-month tide height prediction was also produced (Birch, 1980b).

78-0006

Water Mass Measurements: An Aanderaa RCM-4 was used to measure temperature and conductivity. It was modified to improve the T/S resolution in the range desired. The relevant characteristics were:

	Resolution	Accuracy
Conductivity	0.008	±0.01 mmho/cm
Temperature	0.005	±0.01C°
Pressure	0.76 kg/cm^2	5% of reading

Salinities were adjusted to agree with water sample salinities as measured by a Hytech salinometer (Lake, 1978). The data are presented as listings and profile plots.

Water Level Measurements: Two Aanderaa TG4 tide gauges were installed.
Other parameters measured were: Dissolved oxygen, temperature (thermistor chain), weather, and ice motion (time lapse photography).

78-0007

Water Mass Measurements: In Prinsenberg, Vol. 1 (1978). A Guildline Mark IV CTD was used. The data are presented as listings and profile plots. Fourteen Aanderaa RCM4's were also deployed through the ice. Directional orientation was provided through rigid coupling to surface.

79-0011

Temperature/salinity measurements were made using a Guildline Model 8706 CTD. Manufacturer's specifications for accuracy are salinity ±0.005^{o}/oo, temperature ±0.005C°, and pressure ±0.15% full scale; these are more likely the resolution of the instrument.

The 1979 CTD salinities differed from water sample salinities by about 0.25^{o}/oo and corrections were made. The 1979 accuracies are believed to be ±0.02^{o}/oo on casts where water samples were taken, ±0.04^{o}/oo otherwise. The results are presented as listings and profile plots (Lemon, 1980).

All current meters were subsurface moored, Aanderaa RCM-4 current meters. In 1979, 18 moorings and 54 current meters were successfully recovered. Directional accuracy of the vane sensors was generally ±10 to 20 degrees. Temperature and equivalent salinity accuracies were estimated to be ±0.05C° and 0.15^{o}/oo. The speed measurements are accurate to ±1 cm/s, or ±2% of the speed, whichever is greater (manufacturer's specifications).

Drogued drifters were released in 1979 as part of the EAMES program. The report (Fissel, 1980a) lists positions, velocities and includes track plots. An improved satellite system in 1979 produced position accuracy of about ±1.2 km.

Current profiles in 1979 were made using an Endeco type 110 profiling current meter, to depths of 50 m. Direction accuracy was about ±30 degrees. Speed uncertainty was estimated to be ±12 cm/s relative to ship motion. Absolute speed was calculated for stations within 6 miles of land only. Speed direction and temperature are presented in tabular and plot form (Fissel and Birch, 1980).

79-0012

Five current meter moorings, with two Aanderaa RCM-4's at each site, were installed and recovered. Accuracies were assumed to fall within the manufacturer's specifications. Temperature and conductivity sensors were also used. The data are presented as time series plots, histograms and stick plots (Kashino, 1979).

79-0013

Five moorings, with three Aanderaa RCM-4 current meters each, were installed. Two current meters could not be recovered and one did not operate. Only at the upper meters which were rigidly connected to the surface, could current direction be measured. Accuracies were not given (Polar Gas Project, 1979). The data are presented as speed and direction histograms, some of which are in error apparently due to mistakes in transferring the numbers from the original data. Dobrocky Seatech (Sidney, B.C.) should be contacted before using the histogram results. A tide gauge was also installed and recovered. Only a time series plot of water level is presented.

79-0014

Water Mass Measurements: A Guildline Model 8101A CTD was used. The CTD is able to resolve temperature and salinity to ±0.002C° and ±0.005°/oo, however, the accuracy depends on the salinity determinations of the collected water samples and the adjustments made to the CTD results. Some of the data were not as accurate due to ice in the cell. The data are presented as listings and profile plots (Lake, 1979).

Water Level Measurements: Two Aanderaa tide gauge records were obtained between August 1978 and July 1979. Plots and analyses are presented in the report. Dissolved oxygen was also determined from water samples and profiles are in the report.

A conductivity-temperature chain (0.01°C and 0.01°/oo resolution) was also moored twice. The stability of some of the sensors is under question, but internal wave motion was recorded.

Current Measurements: Six Aanderaa RCM-4 current meters were deployed and recovered. The meters recorded speed, direction, temperature, and conductivity. Statistics, time series, plots, progressive vector diagrams, and stick plots are presented in the report. As well, tidal stream analyses were conducted.

79-0015

An Applied Microsystems (Victoria) CTD-12 was used in this study. Instrument problems reduced the salinity accuracy to ±0.2°/oo. Temperature and pressure were accurate to ±0.02C° and ±0.25 m. The data are presented as listings and profile plots (Birch, 1980a). Surface drifters were also tracked within 6 km of shore.

80-0007

Bedford Institute of Oceanography, 1980. Cruise Report No. 80-027. A Guildline 8770 CTD was used. Profiling current meter and BATFISH tows were also completed. The cruise was biologically oriented and included the usual measurements of nutrients, plankton, ... No data reports were available at the time of writing.

80-0008

This study was concentrated east of Devon Island, however drogued drifters followed the Baffin Current into eastern Lancaster Sound. The report (Fissel and Birch, 1981) lists positions and velocities, and includes trajectory plots.

80-0009

Information supplied by R.A. Lake of the Frozen Sea Research Group, Institute of Ocean Sciences, Sidney, B.C.

A Guildline CTD and Aanderaa current meters were used. Dissolved oxygen was also measured. No data report available at time of writing.

80-0011

Data available from the Canadian Hydrographic Service, Bayfield Laboratory for Marine Science and Surveys.

81-0007

Water mass: A Guildline CTD MK IV was used. The data processing had only reached Field Report (Brooks, 1981) stage; no problems in the data had arisen to that point.

Current measurements: Twelve Aanderaa RCM-4 current meters were deployed and recovered. Two instruments provided partial data return.

Two moorings with three current meters each were deployed in April 1981 to be recovered a year later. Both moorings were found in late April, 1982 at a considerable distance to the east of where they had been deployed. One mooring was recovered, the other was located but could not be reached by divers. The record indicates the moorings probably shifted during a storm event on December 29 and the records are probably good to that point. Further attempts will be made to recover the other mooring.

Of the two pairs of pressure recorders deployed, the southerly pair was recovered. The northerly pair was located but was under heavy landfast ice and could not be reached at that time.

Current profiles: A new current profiler with a gyrocompass was used to automatically measure the current speed and direction, as well as temperature and conductivity, for periods up to 27 hours. The instruments worked well and provided much valuable data.

Other measurements included phytoplankton and nutrient samples, net hauls and ice bottom scrapings.

81-0008

Data available from the Canadian Hydrographic Service, Bayfield Laboratory for Marine Science and Surveys.

82-0002

Ocean and Aquatic Sciences, Central Region. Oceanographic monitoring in Barrow Strait - year two - 1982. This study (in progress at the time of this writing) was to include 62 CTD stations, current meter moorings, and pressure gauges.

82-0003

Arctic Sciences Ltd.

This is a collaborative aerial CTD survey to tie in with 82-0002 and 82-0004. Data analyses were in progress at the time of writing.

82-0004

Institute of Ocean Sciences, Sidney, B.C.

This study in Prince of Wales Strait and Viscount Melville Sound, includes T/S, current and pressure measurements, to collaborate with the two above.

82-0005

McGill University.

McGill personnel were to continue the occupation of station 46 (Barrow Strait) after CCIW leaves (82-0002). They will measure currents with both an Aanderaa and an ultrasonic current meter.

82-0006

No information available at this time.

APPENDIX 2

CURRENT PROFILE DATA AND OVER THE SIDE CURRENT MEASUREMENTS

Current profiles and over-the-side measurements are generally of relatively short duration and are therefore of limited value in determining mean current patterns. Current profiles do, however, measure current shear and this can be important in relating surface currents to currents measured from greater depths by moored current meters. Since current profiles are usually done from surface vessels, or landfast ice, the measured currents are relative to the platform motion. In the case of a ship, unless the vessel is anchored or its drift known, the current profiles are not absolute.

In Table 2, we identify areas or locations and times when such data were collected. Further detail can be found in the source reference.

TABLE 2: CURRENT PROFILE AND OVER-THE-SIDE CURRENT MEASUREMENTS

DATE							
YR	MON	DAY	HOUR GMT	LATITUDE	LONGITUDE	PLATFORM STATIONARY	ID
54				Prince of Wales Strait		?	54-0002
56	AUG	01		69°01.7'	115°55.3'	?	56-0001
56	AUG	04-05		68°38.3'	113°24.0'	?	56-0001
56	AUG	05-06		68°40.0'	113°31.5'	?	56-0001
56	AUG	07		68°44.0'	113°32.6'	?	56-0001
56	AUG	07-08		68°44.0'	113°34.0'	?	56-0001
56	AUG	09		68°27.5'	113°11.0'	?	56-0001
56	AUG	09		68°39.4'	113°23.8'	?	56-0001
56	AUG	10-12		69°05.8'	105°02.8'	?	56-0001
56	AUG	14		68°39.0'	97°49.2'	?	56-0001
56	AUG	16		68°49.0'	94°56.0'	?	56-0001
56	AUG	16		68°37.0'	95°05.0'	?	56-0001
56	AUG	17		68°28.0'	97°06.4'	?	56-0001
56	AUG	19		68°51.6'	99°37.0'	?	56-0001
56	AUG	20		68°15.0'	101°30.5'	?	56-0001
56	AUG	20		68°43.6'	101°02.0'	?	56-0001
56	AUG	21		68°51.0'	105°00.0'	?	56-0001
56	AUG	21		68°29.0'	110°00.0'	?	56-0001
56	AUG	22		68°33.2'	113°28.5'	?	56-0001
57	AUG	22		68°18.0'	113°09.0'	?	57-0001
57	AUG	05		68°56.0'	105°53.0'	?	57-0001
57	AUG	10		68°44.0'	101°24.0'	?	57-0001
57	AUG	11		68°18.0'	100°37.0'	?	57-0001
57	AUG	12		68°28.0'	100°19.0'	?	57-0001
57	AUG	13		68°35.0'	99°46.0'	?	57-0001

TABLE 2: CURRENT PROFILE AND OVER-THE-SIDE CURRENT MEASUREMENTS (Cont'd)

DATE				LATITUDE	LONGITUDE	PLATFORM STATIONARY	ID
YR	MON	DAY	HOUR GMT				
57	AUG	15		68°38.0'	97°47.0'	?	57-0001
57	AUG	19, 23		68°40.0'	97°53.0'	?	57-0001
57	SEP	1, 2		68'40.0'	97°53.0'	?	57-0001
60	SEP	11,12		Fury and Hecla Strait			60-0008
72	SEP	25		74°37.5'	94°14.0'	N	72-0011
72	SEP	25		74°38.8'	91°19.0'	N	72-0011
72	SEP	26		74°30.1'	91°34.5'	N	72-0011
72	SEP	28		74°39.4'	94°14.3'	?	72-0011
72	SEP	28		74°05.5'	91°38.0'	?	72-0011
72	SEP	28		74°06.5'	91°38.0'	?	72-0011
72	SEP	27		74°29.5'	91°32.0'	N	72-0011
73	APR	15-19		74°30.0'	91°21.0'	?	73-0006
73	SEP	01-02		74°37.0'	91°14.0'	Y	73-0008
73	SEP	04-05		74°37.0'	94°15.0'	Y	73-0008
74	AUG			73°10.0'	84°30.0'	N	74-0015
77	MAY	06-29		74°20.0'	96°30.0'	Y	77-0011
78	APR MAY	21- 05		74°10.0'	98°34.0'	Y	78-0004
78	APR	25-26		74°53.0'	98°22.0'	Y	78-0004
78	APR	28-29		74°27.0'	98°05.0'	Y	78-0004
78	AUG	20	1241	73°48.51'	82°11.05'	N	78-0005D
78	SEP	08	1443	73°48.90'	82°13.11'	N	78-0005D
78	SEP	20	0944	73°48.80'	82°12.83'	N	78-0005D
78	AUG	20	1525	73°59.16'	82°15.33'	N	78-0005D
78	SEP	08	1235	73°57.66'	82'13.83'	N	78-0005D
78	SEP	20	0748	73°57.37'	82°13.42'	N	78-0005D
78	AUG	20	1503	74°07.00'	82°17.67'	N	78-0005D
78	SEP	07	1727	74°09.11'	82°15.61'	N	78-0005D
78	SEP	20	0538	74°07.08'	82°17.27'	N	78-0005D
78	AUG	21	0015	74°16.87'	82°21.75'	N	78-0005D
78	SEP	07	1955	74°15.70'	82°13.43'	N	78-0005D
78	SEP	20	0341	74°15.32'	82°19.70'	N	78-0005D
78	AUG	21	0840	74°25.40'	82°17.43'	N	78-0005D
78	SEP	07	1412	74°24.82'	82°21.19'	N	78-0005D
78	SEP	20	0155	74°25.50'	82'22.00'	N	78-0005D
78	JUL	28	1358	74°21.80'	82°00.50'	N	78-0005D
78	AUG	21	1716	74°26.34'	81°58.06'	N	78-0005D

TABLE 2: CURRENT PROFILE AND OVER-THE-SIDE CURRENT MEASUREMENTS (Cont'd)

DATE							
YR	MON	DAY	HOUR GMT	LATITUDE	LONGITUDE	PLATFORM STATIONARY	ID
78	SEP	07	1459	74°26.40'	82°02.39'	N	78-0005D
78	SEP	19	2300	74°27.38'	82°01.00'	N	78-0005D
78	JUL	28	1703	74°05.99'	81°29.89'	N	78-0005D
78	SEP	07	2342	74°04.60'	81°23.47'	N	78-0005D
78	AUG	19	1519	73°43.16'	81°00.62'	N	78-0005D
78	SEP	08	1838	73°43.45'	81°03.20'	N	78-0005D
78	SEP	23	0031	73°42.60'	81°06.10'	N	78-0005D
78	SEP	04	0401	73°48.30'	80°03.00'	N	78-0005D
78	SEP	06	1544	73°48.16'	80°07.72'	N	78-0005D
78	SEP	20	1810	73°48.15'	80°09.45'	N	78-0005D
78	SEP	06	1558	73'59.50	80°17.24'	N	78-0005D
78	JUL	29	0219	74°09.80'	80°20.10'	N	78-0005D
78	AUG	07	1609	74°09.80'	80°18.50'	N	78-0005D
78	SEP	06	2232	74°09.89'	80°18.38'	N	78-0005D
78	SEP	21	0037	74°08.87'	80°17.97'	N	78-0005D
78	JUL	29	0346	74°19.67'	80°22.49'	N	78-0005D
78	SEP	07	0104	74°19.68'	80°22.44'	N	78-0005D
78	SEP	21	0238	74°19.51'	80°25.41'	N	78-0005D
78	AUG	04	1224	74°30.01'	80°26.73'	N	78-0005D
78	AUG	27	1405	74°34.00'	80°05.00'	N	78-0005D
78	AUG	27	1945	74°31.70'	80°28.00'	N	78-0005D
78	SEP	07	0311	74°29.93'	80°32.23'	N	78-0005D
78	SEP	19	1433	74°28.20'	80°34.00'	N	78-0005D
79	SEP	01	1442	74°29.57'	79°06.05'	N	79-0011D
79	SEP	01	1635	74°35.54'	79°20.42'	N	79-0011D
79	SEP	02	1630	73°47.08'	80°05.58'	N	79-0011D
79	SEP	02	2245	73°46.00'	81°56.27'	N	79-0011D
79	SEP	03	0200	73°47.73'	82°15.51'	N	79-0011D
79	SEP	03	0455	73°51.76'	81°35.87'	N	79-0011D
79	SEP	03	1825	74°23.62'	81°52.71'	N	79-0011D
79	SEP	03	2052	74°25.70'	82°23.60'	N	79-0011D
79	SEP	05	0720	73°50.52'	86°58.29'	N	79-0011D
79	SEP	05	1130	73°33.93'	88°26.16'	N	79-0011D
79	SEP	05	1420	73°37.84'	89°10.78'	N	79-0011D
79	SEP	05	1607	73°42.27'	89°39.31'	N	79-0011D
79	SEP	05	1805	73°46.69'	90°10.38'	N	79-0011D
79	SEP	05	2009	73°58.01'	90°09.90'	N	79-0011D
79	SEP	05	2228	74°05.99'	90°00.68'	N	79-0011D
79	SEP	06	0407	74°14.28'	89°31.03'	N	79-0011D
79	SEP	06	0610	74°19.57'	89°13.58'	N	79-0011D
79	SEP	09	2305	73°45.35	80°07.00'	N	79-0011D
79	SEP	10	0015	73°45.80'	80°00.00'	N	79-0011D

TABLE 2: CURRENT PROFILE AND OVER-THE-SIDE CURRENT MEASUREMENTS (Cont'd)

DATE						PLATFORM	
YR	MON	DAY	HOUR GMT	LATITUDE	LONGITUDE	STATIONARY	ID
80	AUG	20	0044	74°27.0'	81°43.5'	?	80-0007
80	AUG	18	1947	73°44.0'	81°45.0'	?	80-0007
80	AUG	19	0110	73°50.0'	81°42.0'	?	80-0007
80	AUG	19	0349	73°54.9'	81°46.0'	?	80-0007
80	AUG	19	0609	74°01.0'	81°46.0'	?	80-0007
80	AUG	19	0845	74°06.2'	81°46.0'	?	80-0007
80	AUG	19	1302	74°12.8'	81°46.0'	?	80-0007
80	AUG	19	1923	74°18.0'	81°46.0'	?	80-0007
80	AUG	19	2210	74°22.5'	81°48.0'	?	80-0007
80	APR	05-24		43 profiles using ultrasonic current meter. Location: Bridport Inlet (R.A. Lake, IOS, personal communication).			
81	MAR	12-13		74°41.0'	91°51.0'	Y	81-0007
81	APR	06-11		74°38.4'	95°11.8'	Y	81-0007
81	APR	14-15		74°13.3'	93°38.4'	Y	81-0007
81	APR	17-18		74°41.6'	96°00.0'	Y	81-0007
81	APR	20-21		74°12.3'	97°49.3'	Y	81-0007

Current profile data that was found and deemed of value was included here, however, the list is in no way complete. Herlinveaux (1974) notes some Ekman current meter data, but the records were lost and only summaries of the data remain. Herlinveaux also included some information on various ship drifts.

Recently, combination CTD/current profilers have been developed, the Cyclesonde for example. Such instruments are designed to oscillate vertically over a set depth range and measure conductivity, temperature, current speed and direction over a period of several days. They are in effect, a combination of a CTD and a current meter and probably belong in a separate category. The 1981 CCIW program employed an Aanderaa current meter fixed with temperature and conductivity sensors to collect similar data.

APPENDIX 3

INSTITUTIONS, AGENCIES AND INFORMATION CENTRES

1. Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, Nova Scotia
B2Y 4A2
Phone: (902) 426-3870

2. Bayfield Laboratory for Marine Science and Surveys
P.O. Box 5050
Burlington, Ontario
L7R 4A6
Phone: (416) 637-4380

3. Defence Research Establishment Ottawa
Ottawa, Ontario
K1A 0Z4
Phone: (613) 992-8395

4. Defence Research Establishment Pacific
CFB Esquimalt
Victoria, B.C.
V0S 1B0
Phone: (604) 388-1921

5. Institute of Ocean Sciences
P.O. Box 6000
Sidney, B.C.
V8L 4B2
Phone: (604) 656-8216

6. International Council for the Exploration of the Sea
Palaegade 2-4
DK-1261 Copenhagen K
Denmark
Phone: (0) 1 15 42 25

7. Marine Environmental Data Service
7th Floor West, 240 Sparks Street
Ottawa, Ontario
K1A 0E6
Phone: (613) 995-2041

8. McGill University
Marine Sciences Centre
Montreal, Quebec
H3A 2T8

Dr. E.R. Pounder (Ice Research)
Phone: (514) 392-5127

9. National Oceanographic Data Center
National Oceanic and Atmospheric Administration
Code D761
2001 Wisconsin Ave., N.W.
Washington, D.C.
20235
Phone: (202) 634-7500

10. National Technical Information Service
U.S. Dept. of Commerce
Springfield, Virginia
22161
Phone: (703) 487-4650
NTIS handles the sale of most U.S. government publications

11. U.S. Naval Oceanographic Office
Washington, D.C.
20390

U.S. Naval Oceanographic Office
NSTL Station
Bay St. Louis, Mississippi
39522

12. Woods Hole Oceanographic Institution
Woods Hole, Massachusetts
Phone: (617) 548-1400

13. World Data Center A
Oceanography
National Oceanographic and Atmospheric Administration
Washington, D.C.
20235

Volumes available.

1. Beaufort Sea: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
2. Beaufort Sea: Chemical Oceanography.
3. Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.